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(12)

Materia Medica

Prof. Tully Course of 1852-53

Preliminary remarks

Every department of nature is governed by fixed laws, a knowledge of which constitutes a man of science, the skill to use them an artist

A science is considered by Prof. T. a system of connected and reliable facts resting upon good evidence. It is a question whether Medicine ought to be called a science or an art. It is high time for practical men to adhere to facts and to be free from hypothesis - leaving the prejudices of ancient times to coming up to the progress of philosophy in other departments. Medicine ought to be a science, as above defined

Still medicine must be both a science and an art both. All the learning which a physician can obtain from books and from schools is but the foundation of his studies. The art must be added The science of medicine rests upon ascertained

1st lecture

a basis as any other, but will be useless without skill or discrimination acquired by experience.

Art furnishes hands and science eyes both are dependent upon each other

By art men of good sense may become quite useful as physicians but must be far inferior to what they would be, if well furnished with science. Such men make a good use of experience. Illustrations the prejudice about the last Friday of the month about the influence of the moon upon vegetable nacre tongings &c

True experience proceeds from observation corrected by science & reflection A person ignorant of astronomy may suppose that he has had experience of the motion of the sun.

Auxiliary branches of medicine chemistry botany and natural history including zoology are too much neglected. The former should be a separate study. Still the proper limits of chemistry must be well understood. Berzelius quoted upon secretion, digestion &c. He calls them vital processes. Lawrence quoted for the same opinion. Still digestion &c. may with

for her limitation be called chemical processes. The gastric fluid does not dissolve properly speaking, the food but decomposes and recomposes it.

Chemical remedies so fashionable for a time have entirely failed. Prof. J. thinks little is to be expected from chemistry, in explaining the modus operandi of medicines. The same blood is to be transformed by def[illegible] glands into twenty different fluids. One of the most striking facts in ~~vocality~~ physiology is the resistance afforded by the system to chemical laws. Chemical laws are applicable only to dead matter & are directly opposed to those of ~~Chemistry~~ Vitality. Broussais is doing much mischief by his use of the terms animal and vegetable chemistry, instead of animal action or life. These sentiments are quoted from Lawrence

"We derive information upon composition, in physiology from chemistry & need to use constantly in pharmacy and materia medica

The benefit to the mind from the study of natural history has not been sufficiently insisted on. Mr. Lawrence observes that what we call method is much promoted by it. The greatest errors of physicians seem to be want

2nd Lecture

of diseases — or diagnostic skill & want of a knowledge of a sufficient number of remedies with their differences of operation — & this will be greatly promoted by the study of Nat. History

Lecture 2nd Health is the performance of all functions. Disease is the imperfect performance of one or more of them. Tho' every imperfection of function does not amount to disease. And it may be that disease is sometimes an excessive degree of a natural action

We must enquire 1st into the digestive 2nd the respiratory 3d the circulatory 4th nervous & sexual & secretions also

We must enquire also into 1st partial or general — 2d acute & chronic 3d sporadic epidemic or sporadic malignant & non-malignant 4th the duration of predisposition before the physician is called & the duration of the disease since the predisposition

Type Diathesis Whether it observes critical days Whether there be a tendency to Congestion or irritation 6th cause since Typhus may counterfeit hysteria drunkenness &c. 7th Nosological place & name Since sudden attacks require prompt treatment

2nd Lecture

It is commonly said that we must prescribe to symptoms. Such general rules are generally dangerous in Medicine. Of the fallacy of this rule many examples may be given. In many diseases the same symptoms indicate a different degree of danger in different diseases or require opposite remedies.

Case. Two patients have languor lassitude, sleeplessness, insomnia, thirst dry skin &c a quick and active evacuation may be prescribed to each and ~~at~~ in 24 hours ~~night~~ one may well and the other dead. One was from a neighboring town where a malignant epidemic is very prevailing, the other had been engaged in a debauch. If the physician had enquired, he would have done nothing for the one & saved the life of the other.

The 3 most important circumstances which we declare are 1st the general predisposition of the patient 2nd the violence of the existing symptoms 3d the known laws of the disease

It is said universally that we must prescribe to the proximate cause; which is the condition of the system upon which the symptoms depend &c.

Introduction to Lectures

proximate cause we must apprehend, be entirely ignorant of — as much so, that of gravitation

N.B. It is absolutely necessary for the Prof. of Mat. Med. to dwell more or less upon Pathology & for the Prof. of Theor. & Pract. to dwell upon Mat. Med. The way in which each [illegible] of a disease will thus be often very different

Materia Med. treats of the effects of remedial agents upon diseased animal powers & the circumstances of use. Mat. Med. should not be made to include Chem. & botany but it ought to be extended so as to include the circumstances which regulate the use of remedies

Every disease has its own peculiar quality of action & every article has its own peculiar (& specific in the proper sense) action — so that no two can be exactly alike in their operation

Disease must be understood for in health remedies can be only chemical or mechanical

Part to which medicine are applied - Therapeutics
Medicines should be confined exclusively to disease

Prof. T. thinks that the proposition that med. operate upon distant parts by being carried there is without foundation

The parts to which medicine are applied are 1st stomach & alimentary canal 2 skin 3° mucous membr. of nose & lungs. The latter is highly susceptible but can receive only gaseous bodies - rarely & similarly susceptible

Translation 1st continuous impression of more Continuants of similarly organized parts
2nd nervous sympathy
2 nervous communication to dissimilarly
3d by organized & different tissues
nervous communication through the brain to distant & similarly organized & similarly susceptible parts

The doctrine of absorption & the action of remedies upon the parts at by contact seems to be crude & mechanical notion. Case of a man whose duodenum was divided by a cast shot - a cathartic operated. Yet this cathartic never reached the bowels - Prof. Wright

In the cases in which absorption is proved there seems to be no remedial effect. And the few cases are at most inexplicable & useless facts. Even where children are affected through the nurse the effect is upon the child, not the nurse

Q. — Absorption does
the apparent metastasis of bile is
to be explained by vicarious action
Dr Dewees quoted on this side
saying that when medicines are ab-
sorbed it is only after losing their a tiv-
ity. Does the business, he says, of the
liver to take up matters & keep
them out of the circulation?. He says that
much of the humoral pathology remains
as it was by which all remedies were
supposed to be absorbed & to act upon
the part by actual contact. This is a
pure hypothesis without foundation.
The humoral pathologists may be satis-
fied, if they wish to be, by the laws of
sympathy above laid down. Prof. Dewees
considers sympathy [illegible] word.
Nitrate of potasses is comm-
only advanced on the other hand
because it is found in the urine. If a
paper dipped in the urine & dried will
deflagrate. But Prof. Dewees
says he will admit the case when
bowels are torpid. But the quan-
tity is very small in proportion to that
taken. and bears no proportion

to the remedial effect. The bowels, also, must be kept active, as was observed also by Paris. But the remedial effect may be very great while there is free evacuations

Capsicum ~~vapour~~ in cider will impregnate the urine with the odour of capsicum. A poultice some 2 drams strong or a scalding plaster of capsicum upon a man's cold hand &c, in the cold — but it keeps warm the remedial effect of capsicum upon the skin will be produced.

In the same manner in which the absorption takes place, the remedial effects are produced possessed by the absorbents. The following Prof. T. thinks, are all the cases of abs. The only substances are nit. pot. chlorate pot. ferrocyanate of pot. nit. sil. (doubtful) also some narcotic substances.

Colouring principle absorbed by Rubia tinct. Anchusa tinct. (alkanet) & Rheum australe (rhubarb)

Odoriferous prin. is abs. in Asparagus, Spartium glabrum (~~genista~~ broom) affects the urine & milk Cucumis cannabis cows milk also Turpentine — camphor — Some of the cruciferous Some of the mints — The garlics —

16 Remedies require corresponding state of system.

Mustard & camphor, in large quantity, have affected the breath (Dr Todd) Prof T. has known opium get taken in such quantity as to produce convulsions, & it may affect the breath

Prof. T. thinks there is proof that the remote effects of ~~lead~~, mercury &c are not owing to the accumulation of the substances of these articles.

In spontaneous combustion, alcohol has been used as food for a long time and the system seems to contain a larger proportion of combustible matter

It must be remembered that the operation of remedies are relative to the state of the system. Stimulants require strong &c.

[The discussion in Murray Chapman & Eberle, Lays of P. T. do not meet the present air issue. Nobody denies that medicines are more or less absorbed, the question is do their remedial effects depend on their absorption.]

In conversation Prof. T. being questioned as to the operation of morphine for an expectoration the blistered surface of the epigastrium said that though it could be denied that the skin was an absorbing organ yet when there was a blister or an ulcer the absorbents would take up remedial articles. Hence denial that of absorption must refer to the three organs mentioned above & the administration of remedies to them. The story of gin found in the brain of a man in Guy's hospital dissected and the latter is considered as not sufficient well authenticated

Does the skin does not absorb tobacco applied to the head of a child prove fatal?

Classification

Class. is a distrib. into groups of subs. a peculiar character.

There must be at least 4 grades. Species are the lowest & most important upon which the merit of the classif. depends.

Classif. is absolutely necessary. Even dispensatories use the terms cathartics refrigerants &c.

It is impossible to have a perfect classif. owing to the variety & the gradual differences and the imperfection of our knowledge.

Some doubt however whether there is any good ground for Classif. in Mat. Med., because every remedy has a specific force. Still remedies have also common properties. Hence classification.

Is there any remedy which has powers altogether peculiar to itself?

There are 5 methods of classif. 1st Chem. Botanical &c. affinities

2nd founded upon the parts of leaves roots

3 upon prox. in de principles

4 part of the system is it

5 remedial effects upon the system.

These are all the modes which have been used.

The first method was adopted by Linnaeus. But the maxim of Linn. that the species of the same genus have the same properties so of orders cannot be depended upon at all. Prof Sindley has wasted his labour entirely in determining the properties of his natural orders.

For example there are but 3 species of polygala which have medicinal properties & of these P. senega is deobstruent P. rubella is bitter tonic & cathartic P. lanceolata;

But few species of the order Polygaleae are active. Sindley's account of the properties of this class very unsatisfactory: the class to which this order belongs.

Gratiola area resembles G. officinalis of Europe differs mainly in colour it is pure bitter & tonic G. officinalis deobstruent, cathartic hydragogue & emetic Veratrum album was also long considered with V. viride of Europe and is destitute of such powers. V. viride is a drastic hydragogue cathartic

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Datura however has the minority of species similar in power but the majority have no power at all. Trillium also has the same power in general.

Be cautious about following this rule - (Ligenalia in Cassulpinia adopted by Linnaeus - is favorable with Lindley - & too much a favorite with Eaton.

The second method is only calculated to bring together the most diverse articles possible

3 The mode of classifying by proximate principles is equally bad for instance how much alike are morphia, cinchonia, elephantin, caffein &c. Fixed essential oils would constitute another group. Volatile essential oils & camphor Turpentine, oil of mint &c. Resins would make another, or guaiacum, saloon of Tolu. Yellow resin of [illegible] Inspissated juices of opium asafoetida &c will be equally heterogeneous.

It is true nevertheless that classes formed on the principle would have more or less of common properties

6th The parts of the system operated on
This is peculiarly fashionable especially among
the French. P.

But then upon the circulating system act primarily, some of the
refrigerants & some of the stimulants
Upon the nervous system act both the nervines and the narcotics & probably the
Tonics Emetics and cathartics will be brought together All the deobstruents will be brought into one class
Those who adopt this method are obliged to consider their classes upon a different principle, that of remedial effect
Sensible properties have been proposed as a ground of classes. But Indian pennies has scarcely any taste or smell
Eleterium has neither taste nor smell
It is believed that the exceptions to this rule are very numerous Euphorbia for instance

For Murray's classific. vide his work
Objections to Murray's classif. If Emetics are
local stimulants how do they prove nauseous &c How can Eleterium if local cure
dropsy &c. &c. Are general stimulants more than this local agency & are in fact more local

16

Six groups 1st group refrig. nervina narcotica 2 exhilantia 3 4 5 6
naturalist group naturally arranged
in classes six groups & three evacuations
except that the absorbents produce one from the first
2nd group essentially consists of art. which produce
an evacuation from parts distant from the al. canal
such act by their impression on the stomach
& viscera, diaph., expect. eminenag. ecbolica
3rd group - articles producing an evacuation di-
rectly from part to which they are applied
errhina 10 sialagoga 11 emet. 12 cath. 13 epispast. 14
4th group consists of articles having a mixed
various action as described in each class
& having very diff. genl.
ag. 15 helmint. antidot. 16 antilith.
5th group - articles having an action purely chem.
antacida or absorbentia
6th group - articles having an act. on stom.
purely mech. inclusive demulcentia. produce their
effect on the vital part in a mechanical manner

1 Or Relaxantia
2 antispasmodica
3 hyposthenica or sedativa
4 incitantia or stimulantia
5 roborantia
6 ~~stupefacientia~~ astringentia
7 or ~~diuret~~ sudorif.
8 or purgantia accelerantia
9 Or sternutatoria
10 salivantia
11 vomentia
12 purgantia
13 vesicantia
14 vermifuga
15 alexipharmica
16 lithontriptica

Substitute use
a class instead
formation

Espaspasmodica
includes rube-
facients & caus-
tics.

Ecbolics are never
cotics, which produce
convulsion or depres-
sion. Correct produce
Convulsion

1st Refrigerantia or sedatives (called sedatives) lessen the vital powers, independent of animation - abating irritabil. & vital restlessness heat, thirst &c of external skin - these diminish temperature & force & fullness of pulse

2nd Nervina allay restlessness, tranquillize

in the 2nd stage

in the third stage

3d Narcotica 1st allay irrit. & overpowered by that the nervina 2nd allay restlessness & facilitation, relieve pain & also more powerfully by them nervina. 3d ultimate narcosis

Some of these produce convulsions in the first stage

4th Stimulantia increase arterial action & produce a quickly diffused but transient vital energy and strength of action

5th Tonica slow but permanent and moderate increase vital action moderately & permanently increase appetite & digestion steadiness & fullness and

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6 Astringents increase morbidly deficient secretion & diminish morbidly increased

both a contraction of fibre

7 Deobstruents

II Group Diuretica Diaphoretica

Their essential operation is evacuation from parts distant

1st Diuretics increase urinary

2nd Diaphoretics

3 Expectorantia — promote secretion & facilitate excretion of pus or mucus

Prof. S. does not believe there is any such class, in strict propriety

4 Emmenagoga excite catamenial secr.

Prof. S. knows of none pure - They are tonics or deobstruents, or perhaps nervines as asafoetida

5 Cathartica. There are many of them but they are however all narcotics and also narcotics which produce convulsive action somewhere as is

tone of Ergot, Actaea racemosa &c.

III Errhina Sialagoga Episp.

dust promine ob. upon parts to which they are applied

1st Errhina. Excite sneezing of mucus in mild errhines, serous

2nd Sialagoga by topical applicatio produce salivation - necessary & all th. substances, is of course excluded

3° Emetica, indepe dent of taste odor or bulk

4th Cathartica

5 Epispastica - including rubefacients vesicatorys & caustics

IIII Anthelmintica Antilithica Antidota. Have no character

1st Anthelmintics dislodge worms and are probably acrid stimulants narcotics irritant (as tin, glass) or cathartic, or a combination. Cam. Tinct. ; stin. Gamboge cath. Andira cath. & narcot. Turpentine stim. & cath.

Antidotes antidotes to poisons. a class which Prof. T. declares has no foundation

Group comprehends only the antacids or absorbents & only hyposthenic remedy

VI Demulcents
1st By form bulk &c. irritate
2nd allay irritation internally & as a topic applied externally. The irritants are chiefly mechanical the 2d class

The above are all the known modifications of medicines. Aromatics are always stimulants & tonics
Diaphoretics & antiphlogistics are stimulants & tonics & the opposite
Emollients are the same as demulcents

The French books contain a class specific. Prof. T. does not believe in its existence

Panacea Victorinus Arthur Rumex are all deobstruent. Sulphur is deobstruent & cathartic. These were parts of Hoyle's cutaneous specifics. Arsenic Mercury Iodine &c. are others.

Quick specifics for periodical diseases, as
ague & fever periodical headach &c.
are bitters & astringents
Oil, anther in these specifics are to the
nerves, mechanical or tonic. cathartics

Sect. 4th — A great variety of remedies
is an advantage not an injury. No two re-
edies, and no two cases of disease are exactly
alike. Chronic cases frequently require a
succession of remedies: a stronger one wearing
out and being beneficially succeeded by a
weaker one. Accessary circumstances
& convenience & prejudices may require
one remedy to be substituted for another.

It will be well for a young physi.
to distribute all remedies into two classes
for convenience of memory into two classes
Efficient & Mild remedies

Though strong and powerful
remedies are the most important yet mild
and weak ones are at present too much ne-
glected.

Our knowledge of many remedies is very imperfect as to their natural history. It is but three years for instance, since it has been known what plant produces the offic. Jalap.

It is too common for practitioners to be too negligent as to the minor points in the operation of remedies Books are often justly complained of by young men as to their want of discrimination in this respect They do not discriminate in respect to the prescription of ipecac, antimony for instance.

Materia Medica has not made the same advance as other branches The cultivation of indigenous mat. med. is almost peculiar to this school that of their especial cultivation.

There are but two or at most three articles for which we cannot find substitutes in the United States viz. Turkey opium, Ipecac & Rhubarb Lactucarium may be about as good as Indian opium. Euphorbia corollata is the nearest substitute for Ipecac.

Gillenia Trifoliata & Stipulacea are the nearest to Rhubarb. Apocynum Cannabinum Symplocarpus & Nicotiana Tabacum &c are no more substitutes for Ipecac than Veratrum.

Physicians are apt to suppose the virtues ascribed to indigenous articles as exaggerated & ingenuous.

Mismanagement as to dose time mode of administration &c causes remedies to be neglected, as was the case with Veratrum after Storck. Tobacco after Withering Arsenic after Fowler &c &c.

Ferrier justly remarks that the management of a remedy is not to be immediately acquired requiring skill judgment, experience &c. Prof. S. in his first trial of Tartrate of Antimony as an emetic, nearly vomited his patient to death yet this is a valuable remedy by far than Ipecac. Some physicians would have been discouraged by this first attempt & abandoned the article. A young phys. must not expect to manage a remedy as well as one of long experience.

We must adopt the nomenclature of natural history or else use two sets of names one for our knowledge of an article & another for the administration of it. Under the pharmacopeias which use the officinal names are compelled to use also the chemical & natural historical for explanation.

When but one part of a plant is used the part need not be mentioned. When but one species is used the generic name is sufficient.

Abbreviation, may be used for long names, but should not be ambiguous e.g. Sulph. potas. may mean Sulphuret or Sulphate potass.

Indeed the old names are merely old chemical & natural history names, which have been necessarily rejected.

Prof. T. declares that it must however be impossible to make a pharmacopoeia which shall not be 25 or 50 years behind the age. Both the last pharmacopoeias contain mistakes in botany older than the Linnean era e.g. Smilax

Sarsaparilla, so called by Linnaeus, by conjecture, a North Am. plant &c
It was soon found that Offic. sarsaparilla was the product of S. syphilitica & S
of the river Cassiquiare S. America
S. sarsaparilla had its name changed to S. glauca, but the old name has been restored by our non-medical botanists.

Many of our chemical articles date their processes of formation from the time of Paracelsus & many things in those days was put into a crucible not knowing what would come out - just as the Israelites put in their gold & there came out a calf! The black oxide of mercury for instance is made mechanically. The preparation of Antimony are perfectly inexplicable Undoubtedly it would be better to use Antimonous & Antimonic salts &c.

The best pharmacopoeia is that of Holland (Ph. Batava) in 2 vols. 8vo This was made by one man.
At least 20 individuals might be found who would make a better one for U. States-

ed States, &c. can be made by any Delegation, & no book can object to Botanical articles &c &c.

Sect 5. Proximate principles

1st Essential oils, including the volatile. They are 1st volatile 2nd fixed (O. mentk. - ol. cinn. Camphor - are examples of the vol. There are many other solid ones besides Camphor. Volatile oils are obtained by distillation. Fixed oils by macerating in ether & evaporating the ether. They are very numerous, yet but two of them are recognized in the books, viz. ol. caps. & ol. piperis nigri. Prof T. experimented extensively & failed but once in obtaining a fixed oil viz. rhus venenata. Many articles contain both a volatile & a fixed oil Exp. Cubebs (the fixed oil is the active principle) Rhododendron - piper nigrum - &c. Xanthoxylum praxineum (the fixed oil is active, probably also the magnolias & the ilexes &c. Piperine & Capsicin are inert.

Probably the Polygonums, Aroideae Ranunculi &c. owe their activity to a fixed essential oil.

The proximate princ. of dipteris odorata (coumerine?) used for scenting snuff (W. S. bean?) – appears to be a solid volatile oil like camphor.

All the oils which have been analyzed contain hyd. & carb. some also oxyg. – some also nitrogen

The properties are stimulant or nervine, or narcotic or both or all

2nd Resins are nearly allied. Thompson observes truly that all the volatile oils become resins by long exposure to atmosph. There is a difference of opinion as to the mode – some thinking that oxyg. is absorbed others that hydrogen is given up – others that

Probably all these modes occur.

Prof. T. excludes the solutions in alcohol which have been called by resinous principles or resinoids

Resins are hard or soft The latter may completely resinified oil in solution in the oil. Resin of Copaiba is soft like oil – Resin of Tolu & resin of

2° pure is intermediate. By distillation the ess. oil goes off & leaves hard resin.

When distilled without water there is an empyreumatic principle mixed e.g. Colophony. If Water is added we have white resin e.g. Burgundy pitch.

Balsams have no claim to be called distinct proximate principles according to Berry they are compds of resin & benzoic acid - upon this ground they could not be proximate principles. But the benzoic acid is a product not an educt of the decomposition, or of other processes. Some resins that afford succinic acid e.g. amber & copal - others suberic &c &c.

Gum resins are merely inspissated saps or extracts by decoction. Aloes with a vitreous fracture is nothing but watery extract by decoction.

The resins are derivatives, stimulants, or cathartics

3° Bitumens - are next in complicacy & similarity of composition.

The Bitumens are 6 viz naphtha petroleum maltha asphaltum & the two mixed bitumens

Mineral bitumens are (perhaps resins) asphaltus & bitumen carbo

Bitumen naphtha is some essential oil mineralized by the earth
B. petroleum is naphtha partially rectified B. maltha is a solid (virtue in) essential oil
B asphaltus is probably, naphtha perfectly rectified. B. caoutchouc is not well understood. It is, a mineral, & has never been used in medecine

Bitumen carbo consists of mineral resins &c. mixed with carbon

They are all (those which have been used) nervines & are perhaps, not well understood. They relieve some cough, it is not known upon what principle

4th Greasy fixed oils, either liquid or solid e.g. olive, nut, salad, almond rape seed, mustard, linseed, oils.
Solid fixed oils are ol. of Cocos butyracea palm ~~oil~~ oil cocoa nut oil bay oil (Laurus) oil of cacao (butter of chocolate ol. of stillingia sebifera or chinese tallow tree ol. of myr. cerif.

3d

Thompson considers wax to be a concrete greasy fixed oil. — not a resinified oil

All these consist of ox. hyd & carb.

The fine glossy coat of flowers & the pollen, ~~wax~~ seems to be wax. Yet the bees are seen to secrete it. And to collect the honey; & not to secrete honey as was supposed

The greasy fixed oils are all cathartic, that of Ric. contn. hyoscyamic principle which make it more so They are used mainly in pharmacy

5th Cacao ~~is~~ is used merely for bougies &c. It is not well understood as to its composition

6th Salifying principles — of four sorts 1st neg. ac. in a free state or form of bi & quadro salts e.g. acetic oxalic, tartaric (rhubarb in pure) citric, malic (orbic) and the hydrocyanic. Acetic is contained in bile, Rhus typhinum. Pyroligneous acid in pyroligneous acid Oxalic in sorrel, rumex, &c.

Citric in oranges, lemons &c. Tartaric in grapes &c.

Malic in the non poisonous species of Rhus
R. glabra has more than any other veg.

Hydrocyanic in cort. of the order ro
Laceæ e.g. plum peach, laurel &c.

2nd in the small granules & in a state of
combination e.g. gallic & mani
they are the most numerous

3d products of decomposition, benzoic
succinic, suberic. Generally nervine.

4th not sour to the taste, nor reddening
blue veg. colours. Yet they neutralize
bases. Their classification is doubtful
Sugar is one which there are many varieties
as pure C car. 5 oxy. 5 hyd. sugar of
honey sugar of liquorice sugar of
manna ~~Star~~. Starch is another
(called amidine) Gum is another.
Vegetable mucilage appears to be an
intimate

The first group are regurgi-
ant. The second are not medicinal alone
but are in comp. The third are nervines
perhaps have other prop. The fourth are demulcent

½2

6th Salifiable bases very numerous
1st alkaline 2nd not alkaline The lim-
its between these two is not distinct
3d crystalline & neither alkaline nor un-
alkaline. Specimens of these last are very
numerous - cinchonia, quinia, delphin-
ia, cephaeline (emetine) caffeine
morphene - jalapine - narcotine - picro-
toxine (cocculus suberosus, called coc. ind.)
strychnine, veratrine, rheine, sanguin-
arine &c. Dr. T. admits but 2.

2d There are very many more. e.g.
in opium we have also narceine & me-
conine.

The names of these ended
at first in-ina and were applied
by physicians. The chemists have changed
the termination to -in which is always
too near & sometimes the same as the
names of the plants themselves. The pharm-
acopoeias have rejected the change
- except the two United States where!!

Cyd. Nit. Carb. & Ox. is the
composition of them all

These are the most important
of all the principles

one of the most important advantages is the permanency of their strength for instance bark is of 2 s - price, varying in strength and some very weak - Veg. also lose their strength by keeping &c.

There are several principles, not acid nor alkaline e.g. Conein (deadly), Aconitin, Cantharidin Colocynthin. Glaline hyoline scyllitic. There are very many of them and most are medicinal with of course powers. Some have no medicinal powers Some have been found to be acids or salts, e.g. Salicine is Valicate of Salicine Turpentine is a compound of has been well known this thousand years - Prof. F. recollects seeing an alcoholic tincture of this yellow powder used in his father's family

Colouring principles are not well understood. They are often other principles

Gluten & Veg. albumen are incapable of classification & are not medicinal

Incompatibility medicinal & chemical. Medicinal physiological or pathological incompatibility is the conjunction of articles proper in opposite states of the system e.g. nitre & alcohol, tart. ant. & alcohol nitre & bark &c.

Chemical incompat. is where a new product is formed by the union, which we do not require, for sometimes, as in the mixture a ferri composita, it is the one we wish

It must be remembered that when the action or union which takes place is between the inert parts of the remedies, the two are not in compat.

Neither when by composition the properties of the active articles is not changed, here we an example of mic.

Examples of chemical incompat. are Muriate of soda Sh^d not be used as diet when nitr. sil. is given neither should tannin or gallic acid, for the resulting chloride of silver & gallate of silver are inert.

There are very many instances in which composition does not change the medicinal properties. A good example is iodine. If you give enough of the acids or salts of iodine to get a dose of the iodine you have the effect, as a general rule as from a dose of pure iodine.

Bromine is supposed to be another example. Gold is another instance you may give it in (precipated) minute division, or in its oxides or salts. Platinum is similar. Prof. J doubts whether this is true of phosphorus. Certain phosphates of ~~the~~ lime &c. are inert. Iron is an instance. Crude arsenic only is inert, so that this is not an instance.

This is remarkably true of ternary & quinary compds. e.g. Carbon & nitrogen are each inert: but Cyanogen is active in all its compds. Arsenic & oxyg. are each inert: but Arsenous acid & the Arsenites have the same properties.

Those most subject to this law of the inertness of their element & the

activity of all their compounds are the vegetable salifiable bases. One exception is said to exist, in respect to their union with iodine & bromine &c., said also that their carbonates are weaker. Combination with gallic acid renders some of them more stable the active principle of veratrum is a bigallate of veratrine.

Gallic acid decomposes the quinates of cinchonine, and forms insoluble compounds — hence astringents containing gallic acid, are incompatible with cinchona. Tannin however is compatible. Anecdote of an able physician having learned to make cinchona, not disagreeable to taste in this way.

Vegetable astringent containing gall. ac. seem to be incompatible with menispermum. canad. for the sourness of one & the bitterness of the other are destroyed This is undoubtedly true of Cocculus palmatus (Columbine — a similar bitter & tonic.

Cinchona is well known

to be chemically as well as medicinally incompatible with tartar emetic. Still tartar emetic is not incompatible with cinchona for the tannin decomposes & destroys tartar emetic which tannin is not an essential ingredient of cinchona - 1 fl. oz. of infus. cinch. will render inert 3i tart. emet

It is universally said that arsenic is incompatible with cinchona. Prof. S. denies this, as a fact, & think, it is probable prima facie

There is no doubt that the actual powers of the preparations, yet the laws of probability in relation to this, have never been satisfactorily investigated.

We are not to expect that decomposition will take place, ~~when~~ in the stomach, when the action of the articles upon each other requires considerable time. Case of a physician in N. Y. State prosecuted for giving (not only brandy & opium in acute fever!) but nitric acid & pills of black oxide of mercury. Now it requires about 12 hours for the latter to unite and in addition to this the resulting nitrate of mercury is but about half as strong again as calomel!

The general conclusion is that articles ~~for~~ which produce chemical action when mixed, are not from this merely to be considered as chemically incompatible as is too commonly done in modern books of Mat. Med.

Rules respecting the parts of plants to be collected & the time of gathering them

Of annual plants the leaves are generally most active: Of endogens the seeds alone are active occasionally the flowers & the stem have but little the roots generally none

As a general rule when the activity resides in the ascending sap, especially if coloured or milky, the seeds may be expected to be inert e.g. poppy & sanguinaria. The seeds of the last however are said to possess other powers

Plants shd be gathered when their vegetation is most vigorous. Co-

rium is an exception, the leaves of which should be gathered when the seed are ripe

Flowers should be collected as soon as they are expanded. & seeds when they are ripe. Some seeds, as those of mistletoe must never, or should be gathered as soon as fully formed: The seeds of autumnal when fully ripe are not very narcotic

Biennials, have roots & stems of rather more activity. The roots should be collected in the second year, and the rest when the tops die. The leaves & stems in the 1st year

Perennial roots should be collected in autumn when the tops have decayed This rule must have great exceptions especially as plants are generally collected by unprofessional persons. Prof. J. was disappointed in Sanguinaria, for this reason, at first gathering after the flowers. Others have been also. Leaves of Actaea, which many have condemned for this reason. Case of Charles Perry - He had been in the habit of taking for rheumatism, in Hartford, about a table spoonful of a stop tincture made of plants gathered in the wrong season i.e in the spring. At Castleton he was nearly killed by their tincture

Barks of shrubs & trees are to be collected when the leaves are dead

Fruit generally when ripe

Evergreens at any time but best in the ~~the~~ regetable worst very early

Plan of the course. This is to treat of each article under the class, in which its most prominent operation belongs.

It is very important to consider the properties of remedies in their connexion or else we shall not understand the prominent operation e.g. opium & tart. ant.

Although one ~~article~~ operation is the foundation of a class, yet articles of one class and of one operation only, are by no means equivalents for each other. Still less, than, can we consider as equivalents those which have other operations besides; and thus also it will be impossible to understand any remedy by knowing its prominent operation

It must all the difference between wisdom & folly depends upon discrimination

Sweating, effusion of cold water

bleeding, emesis & cathartics, break up fevers for instance but under what circumstances is one preferable to another. Cold, astringents &c &c. arrest hemorrhages, but when is one of them preferable?

Knowledge of this kind is not to be found in the books, so much as it ought to be

Previous to the consideration of particular remedies it will be necessary to consider various physiological & pathological conditions which influence their administration

Temperament. — Consists in the peculiar bodily qualities of an individual

Two general divisions, irritable & torpid

Irritable are sanguine & choleric

Torpid are melancholic & phlegmatic

1st Sanguine. hair soft flaxen not much curled, Eyes blue, complexion fair. Stature of a considerable pulse soft full, & frequent, skin soft & delicate. Muscular strength moderate Great mobility of nervous sensations & emotions easily excited. Constitution delicate, solids lax & small in proportion to fluids. Blood copious. Mind receives quick & strong impressions but is variable in its pursuits.

Sanguine temp. mind quick cheerful, disposition ardent & voluptuous. Susceptibility very great - high enjoyment of life. The most common diseases are inflammations, and tubercular phthisis, rarely said to be more liable to chronic diseases. It is rarely more susceptible to the causes of acute diseases than chronic or atonic

Choleric — hair brown or dark — eyes dark grey quick & fiery — skin rough & dark — the whole system full — muscular strength considerable — Pulse quick full & moderately strong — Muscles firm but not rigid

Internal susceptibility nearest to Sanguine

Disp. ardent, bold daring, cruel, not cheerful — said to take on febrile diseases often & probably with truth

Phlegmatic — skin white, dead — no hair — blood-vessels small — much serum in blood — stature bulky — hair soft whitish or sandy — pulse weak & slow — circulation languid — imperfect secretion — little muscular

strength or bodily activity - muscles soft & flaccid Secretions scanty

Sound sleep - but steady calm & deliberate

Despon. good memory capacity of passive courage - often cowardly & vacillating

More subject to torpor & dropsy and glandular obstructions - stamina dropsy &c.

Melancholic hair dark, lank, lead or much curled eyes dark black or hazel skin dark, oily & with much hair - pulse slow & hard. body meagre - solids rigid & strong - blood abounding in gluten.

Mental Constt. troubles & despondency

The phlegmatic

Disposition grave severe & austere not irascible - when provoked not easily pacified capable of earnest mental application - often with strong perception - rigid - often prejudiced & bigoted.

Peculiarly liable to disorders of digestive organs, such as flatulence, melancholia, hypochondria, costiveness, dyspepsia.

John Thorp, the spy selected for the capture of Arnold is a good instance.

Occasionally individuals are found answering to one of these descriptions perfectly. But generally there is a mixture of the temperaments.

'Constitutional and Family tendencies also influence the practice of medicine.

Dr Gilbert Blane quotes at some length, in favour of generous diet, animal food, wine and beer in Scrofulous habit. Case of a family, half of whom were fed generously, & half sparingly.

Hydrocephalus internus, which is nothing more than scrofulous affection of the brain: regular Struma, hip disease, tabes mesenterica, phthisis &c. &c. are often produced in scrofulous persons, by the present fashionable mode of treatment. ~~Ophthalmia also~~

Scrofulous persons will not bear half the reduction that others will even in inflammatory diseases, acute rheumatism. Great mischief is also done in ophthalmia - the disease made worse. Case of a young lady, sick 5 or more years, with it cured by Tully in a few weeks by generous diet quinine &c.

Case of two scrofulous brothers, excessively fatigued, after a fire. A physician was called who advised a dose of opium & a glass of

brandy & sling. One refused

Case of another of a family with opthalmity. He could be cured by 3rd March, but from careless ness with relapse. He went to N. Y. Was bled & purged for some time. died

The ancients are said to have required 4 times as large dose. Doubtful

The Italians require less dose than the French. These than the English & the English than the Americans

Idiosyncracy is important & is not a mere difference of susceptibility which varies even in the same individual For instance, if a single grain of cal. produces purging or salivation, it is merely a proof of greater susceptibility

In idiosyncrasy the operation is different in kind - for instance if opium purges, as is occasionally the case. There has been a case of this kind in this neighborhood

Opium is the article with respect to which idiosyncracy is supposed often to exist. Yet though, difference of sus-

susceptibility is very common ~~xx~~ Prof. S. has never met with a case of genuine idiosyncracy. Case of supposed idiosyncracy - a lady - Prof T. mixed equal parts of Sanda rum & Spt. peppermint. the latter of which is one of the very best articles to cover the taste of ~~which~~ others. Case of the same person, with a typhous fever.

Prof. T. could relate similar cases with regard to iron, peruvian bark cathartics, emetics &c. They are merely cases of great susceptibility, which require small doses, great care, & peculiar management. A Frenchman's imagination will be equally active against calomel! Indeed the whole French nation may be said to have an idiosyncracy against calomel!

Case of a woman in Chatauqua Co. Her phys. gave her pills which contrary to her supposition contained opium - she took them with great benefit for a week. Her phys. accidentally let her know that she had all the while been taking opium & then immediately turned over & began to ~~xx~~ it uncontrollably. It was very difficult to overcome the

Pulse. Prof. T. considers it as very certain that Hippocrates knew little or nothing respect to it. His follower Praxagoras was the first to attend to it

Prof. T. has often seen the motion of the arteries at many feet distance in opposition to the modern doctrine of the passiveness of the arteries.

Pulse he thinks is produced by a wave of blood. The wave produces the dystole & the contraction of the coats the diastole.

If the pulsation is merely produced by pressure, it would seem to indicate only the varieties of that pressure

Probably, & indeed undoubtedly, the large arteries do not pulsate

Under the term pulse we include all the circumstances of the circulation, which can be distinguished by the touch

Vital power is probably always unequal, in disease. In phlogistic disease the arterial part of the general system has increased action

We cannot depend much upon the pulse in infant owing to their irritability. We cannot depend much upon it in old age. In the insane the state of the pulse depends upon that of the mind, rather than the latter upon the former. — especially in a paroxysm

The circumstances which influence the state of the patients pulse, are sex age, occupation, position, state of mind, approach of the physician

The phys. should always sit awhile — & should feel twice — relaxing the arm — forbidding talking — Counting more than ½ of a minute — using two fingers — always the radial art. which is of more uniform size & which we get accustomed to. In the other arteries we can judge of nothing but frequency. Still it is well to get accustomed also to the temp. art

Dr Rush thought 3 or 4 fingers better. but in that case there is a confusion of impressions — different parts of the artery &c. to be misled & perplex

Dr. Rush almost wished that the Chinese rule of compelling the phys. to prescribe from the pulse, was in vogue. Prof. S. agrees to this.

When the other symptoms are good, it is no indication, in general of danger, if the pulse is bad, except in severe and malignant cases. The pulse is of less consequence in chronic diseases.

Prof. S. thinks there has perhaps never been a period since the dark ages, when it has been so much the custom to prescribing to the name of a disease. Though there is a abundance of declamation upon the subject. Vide Gregory who makes a prophesy a unit. Dr. S. the fashion also to consider inflammation as a unit.

& Frequent

It is often vaguely called a high pulse

A quick pulse is a sudden stroke, ~~xxx~~ a stroke made in a short period often sometimes called jerking

A strong pulse. cannot be felt readily in the

A full pulse. is when a

A hard pulse is when the artery is felt like a tense cord. It is called often a tense or corded pulse. Hardness quickness & smallness, make a sharp pulse

This must not be confounded with the rigidity of the arteries in former and old ~~pulse~~ people

A fluttering pulse is weak quick & irregular

A gaseous pulse is

An undulating pulse

A creeping pulse is undulating & small

A depressed or oppressed pulse is when the ~~art~~ pulse is preter strong, some but extraction pulsation indistinct & perhaps the diastole does not empty the artery. This pulse must be judged of by the other symptoms accompanying

Prof S has frequently met with a variety of the undulating pulse, in which

72 An obstructed pulse

A shuttered pulse feels like a splint quill or a bundle of cords of unequal tension. It is very remarkable. It occurs

Low is too indefinite a term It is never applied to a frequent pulse It is sometimes applied to a small & hard

Fibrillation is a difficult quality to distinguish. It is often mistaken for strength and thought to contraindicate opium &c. which are the very remedies indicated

Indications from the pulse

Great frequency always indicates a low state of the vital energies. It may accompany the undulating the

Frequency must be compared with health, yet the healthy pulse is most frequent in the morning, while the exacerbation of fevers (with the exception of T. typhoides) occurs in the afternoon

It is too generally said that increase of frequency indicates increase of action i.e. of energy. There is great confusion in the use of language, upon this subject

A short quick beat of the pulse in rosalia & some other fevers indicates a

g

A quick small & hard (wiry) pulse merely indicates atony and irritation combined and may be removed by anti spasmodics. It is often produced by irritating remedies in pneumonia, dysentery &c. It may be caused by excessive doses of

acrid essential oils producing cholera

Enteric fever, contagious, enteritis is not, as authors say, always accompanied with a weak and easy pulse. On the contrary the pulse is hard & strong although small. In erythematic enteritis the pulse is the same but weaker

Preternaturally infrequent & slow pulse is found in Paresis, meningitis, typhus, apoplexy Hydrocephalus.

Intermittency is of less consequence than other qualities

The pulse of health resembles that of atony more than entony. The pulse of health is no indication of entony.

Irritation always, perhaps, accompanies disease, both atonic & entonic

Diathesis

It in its widest acceptation is a peculiar condition of the whole or part of the system.

It includes hence the Crasis of Gerard and the Predisposition in epidemics.

The most important is that of Hæmorrhagic System.

It is universally admitted that the two diathesis sthenic & asthenic exist with the exception of a few who deny that asthenic diathesis exists in acute diseases denying the justice of Cullen's distinction in this respect. They say that the debility spoken of by Cullen never does not exist.

Prof. T. limits the term sthenic to the state indicated by the strong & hard pulse.

1st Increased frequency cannot be considered an indication of it & in truth he, nothing to do with it. In health 110 or 112 (Hodgson) is the most about 115 is the limit of freq. & the majority of severe acute diseases have a pulse more frequent. 2nd Increased heat of skin also is not with in the most sunken Sthenic diathesis - a increase where the heat is excessive - both thermometrical & calorific

with the pulse may be a mere quiver.
3d Increased muscular power. also has been met with in cases of yellow fever, where the patient is pulseless also in delirium tremens where there is no pulsation, and the strength is greatly requiring 4 men to hold him & may spring from them & fall dead on the floor in consequence of the brain. it pat. often, very (generally) like Increased mus. act. is merely the result of excited brain
4th Spasm. the tonic muscular action has also been mentioned as a test, but both in tetanus does not accompany tonic disease
5th Increased secretion, is entirely valueless as a test. The mouth, with vessels may be relieved from clean, as is recognized by God. Is leucorrhea necessarily tonic? In the last stages of phthisis, the pat. may expect 2 quarts a day.
Tonic pneumonia has generally a slight accompaniment
6th Pain is often nervous & in gangrene, & the case has no connexion with phlog. death.
Yet are always bleed for pain
Mental exhilaration also exists often in cases of the lowest & most malignant tonic diseases. Prof. T does not believe

)8
It ever occurs in phleg. death.

8 2 delirium belongs to chronic & nervous diseases. Sydenham says he has never seen a case of mania proper, with entonic diathesis. In phleg. cephalitis, hysteria, chorea, delirium. It also in cases where the blood passes into entonic cephalitis

Equally false notions have been entertained about debility considering it as muscular weakness &c.

Loss of health is a different thing in kind from entony of disease. In judging of death disease must be compared with debility is of two sorts 1st that of exhaustion which is induced by attenuation of blood &c. result from starvation &c.

2nd that deficiency of vital energy which is produced by narcotics, poisons, vapours, & the most frequently upon the accession of an acute malignant disease. This is not accompanied with inanition and may be cured immediately, or soon, by stimulants & especially stimulant narcotics

3d deficiency of vital energy in the art. syst. which may exist with considerable, or an increased muscular strength. The patient may even be

about the pulse, and in articles
mortis e.g. walking cases of yellow fever
of jail fever &c.

4th rarely but incorrectly applied to
cases of oppressed pulse, which may removed
by bleeding, and the strength restored

This is more properly a state of prostration
in which the vital energies are latent, but
not extinct (like a spring oppressed)

In the commencement of non malignant diseases we may have a mixture of both exhaustion and prostration

Prostration in acute diseases
may be relieved by tonic excitants, as subsulph.
acid ipecac and is neither increased nor
diminished by stimulants of tonics. In exhaustion
in diseases prostration is increased by stimulants.

In the exhaustion &c. syncope
a deceptive feeling of fulness in
the pulse — a jerking & bounding — may exist
within a few moments of death

The hypothetical Brunonian
distinction of direct & indirect debility seems
to have no foundation & to be useless if it had
What is the ~~debility~~ difference between

the debility of an ulcer from fever & that from wound? The distinction from cause merely, is calculated to mislead. The distinct shd be from the nature of the action.

Besides, the condition of indirect debility from stimulants does not exist in atonic diseases unless poisonous doses are given.

Brown also deduces his opinion from the prostration of wine alcohol and opium — which if given in excessive doses produce no stimulation. (Thesis of Brown's case, Jun. Lib. and supposed indirect debility.

We have then exhaustion of two kinds 1st that of inanition 2nd that of atonic malignant disease, & in poison, fatal doses of opium.

These distinctions of diathesis seem to have been intended by many of the old schools even by Hippocrates. The hot & cold the wet & dry medicine, seem to have had reference to the fevers the mechanical sch

Some of Cullen's followers used the term hysteric & hypochondriac diathesis.

By the former they intended a state of atony combined with irritability, mobility & excitability & by the latter one of atony combined with torpor

Tone is a natural & healthy degree of vigour in the performance of the function.

Entony is a morbid deg. of strength & vigour — the vital powers in performing the functions

Atony a morbid deficiency of vital energy in the performance of the function

Diathesis continued

It is necessary to bear constantly in mind that authors use the term weakness for debility. Strength is resistance to pressure. Hardness is merely a very full, bounding pulse and a diastole, and may yield readily to pressure. Flushed face throbbing of carotids laborious respiration &c. may exist in connexion with feebleness of pulse and even after circulation has ceased at the extremeties

There are both entonic and atonic phlogotica & exanthematica. It is much more doubtful whether there are any entonic than atonic exanthematica, for most if not all of the exanthematica are synochous — small pox for instance. This synochus is what they Cullen Rush & Armstrong call simple typhus. The term inflammation is now more to be regarded than the term fever

Animal heat has been supposed to be great in proportion to the vital energy. Perhaps this might be a good discrimination if Calor mordax were not confounded, and thermometrical heat be understood. Yet Prof. T. believes there are cases of inflammation sanguineous & in their tendency from the first which are accompanied with high thermometrical heat.

Enteric diathesis is not bilious as is taken for atonic. Yet atonic typus especially typhus is often mistaken, even by good phys. for enteric on account of the very hardness communicated by irritation.

Prof. T's attention has been particularly turned to the detection of other symptoms than the pulse. There are very few certain ones but the pulse, in enteric

Atonic, Inflt. has a duller, more livid colour, skin nearly natural in colour post ad a crimson, less sore less swollen generally something more so — matter thin ichorous &c. — Surface covered with vesicles

There is neither less heat in a calor mordax

Acute atonic infl. may occur & also
be rapidly fatal even in 24 hours. Such
cases occur when a person by has much reduced by
disease. Slight causes. opium - wine - brandy vigorously
Dr. Parkes knows them occur in the form of dyspeptic
phlegmonous infl. For local
violence, is often atonic relieved by
opium - while unequivocal idiopathic
phlegmonous infl. will not#
For however call these
hypersthenic or more atonic because they
require more depletion to reduce them
But Prof. T affirms that they will recover
better under an excitant & supporting course
- quinine has been tried out in Tropical
hepatitis & pneumonites, & it has been shown
that those have succeeded best who con-
sidered them as constitutive & not atonic,
and gave calomel opium & other debstru-
ents. Now the hepatitis of our climate
would prove fatal in 999 cases in 1000.
Atonic diathesis is the most common
and most extensive

This seems to depend upon a state of prostra-
tion

In the times of Morton & Sydenham a change of death from atonic to entonic took place

Just after the Rev. war a similar ~~case~~ change to an entonic diathesis in the typhus &c. caused them

Beginning about 1805 & extending to 1810, in a considerable part of our country, the change was from entonic to atonic. I

Indeed about 1800 a general change to atonic death seems to have taken place over the world. This is evinced by the malignant pneumonias cholera, & cases of low atonic inflammation

This death has not ~~visited~~ N. Holland, where they have never had epidemics. All extensive epidemics are atonic.

Sydenham has explained better than any one else the subject of epidemic influence

All the cases of the same epidemic are of the same death in kind & your cases not entonic cases will be the intercurrent ones

The local affection accompanying an atonic fever is often the cause of death. This is important to be known. For here we are never to treat the const. aff. as atonic and the local as entonic

There is perhaps no such thing as a general death. which is neither entonic nor atonic These cases however are more liable to occur, in an atonic death. than in an entonic

This distinction of the same disease into two kinds according to death. is scarcely recognised by authors except in pneumonia & peritonitis. In peritonitis we have two diseases, distinct from each other Erysipelas. parotitis. constitutes a distinct disease Distinct & confluent are all perhaps mere varieties of the same disease, running one into another the former entonic the latter atonic

Cephalitis 4 sorts 1 entonic 3 atonic.
It affects generally the Cerebrum — not commonly meninges
1 entonic is phrenitis of the books 2 erysipelatous cases from synochus & typhus
3 atonic of which of the brain — fever typhus
most common at present 3 arthritic infl.
If affects all by turns. It may or may not be by metastasis of brain. affecting all the textures may be entonic but more it is atonic

60 chronic
4 strumous infl. of brain which is always atonic

Pneumonia may be 1st entonic
phlegm. of Cullen which aff. all text.
2nd erysth. infl. of bronchial membranes always [illegible] intermittents pulmonia or bilious pleurisy.
It may vary from synochus to typh. gravis.
3 atonic phleg. infl. of mem branes
called pneumon. notha. Aff. bronch. vess.?
4th strumous tubercular phthisis
5 asthenic
6 atom. phlegmasia of Tropical climates

These are all well known but are not always all found in the system at the same time.
They constitute specifically distinct diseases.

All diseases not phlogistic must in their continuance become atonic

The distinction may be difficult to make in phlegmon ophthalmia, or chitis, & some other local inflammations, whether the infl. is entonic or atonic. Prof. T. never has met with much difficulty.
It is not true that the vigorous & robust are more liable to phlogistic diseases. Some of the lowest class occur among them. Yet it is laid down by

rule almost to bleed a man because
if he is naturally vigorous & robust. They
should be bled if their symptoms indicate
it and not without

It was formerly supposed that
all evacuating articles were reducing, this
is now known not to be the case

In acute atonic diseases bleeding is never necessary. It may be admissible in subacute & chronic, to increase
|| susceptibility. But should then be followed
by efficient counteraction and support

Diathesis does not cause a
disease. It cannot be said with propriety
that a particular diathesis causes disease.
Rather say that diseases when they occur
take on more or less of the prevailing diathesis

Congestion

Accum. of blood in ~~par~~ particular parts
It is believed to be always a mere effect &
not a cause of disease. and therefore of little
consequence

The heart is the sole organ
of the circulation. The press. of atm.
is a powerful antagonist to the heart in fill-
ing the capillaries. This is proved by a cup
which produces congestion. This is attempted
to be explained 1st by expansion of the
liquids 2nd by that of the air within the
cup. But liquids are not compressible
& there is not air enough.

Various pathological phenomena
prove the position. The brain & next to this
the thoracic viscera & after these the abdom-
inal viscera are protected from the atm. press.
(the object of protecting the encephalon by

Suff. occasion, congestion
independent of atm. pres. & of the act. of heart
Local atony also

But this is doubtful
Action of the mind causes congest. in the head,
Emesis also & paroxysm has the same effect.

of prod. cir. con. sing. p.
5 ways (" " ") e.g. prod. inc
of a.c. of heart
when extreme it gives a bronzed
appearance to the skin because of bony canal,
also enters in
Cancer is a good instance

Reduced by weakening the heart by
t.v.s. also by rel. part. mem. of ac. pl.
It is well known that in all the
cannalic phlog. the superf. cong. does take
place — appearing from the sense of fullness
distention &c. — relieved by the 2 ways above
Bleeding relieves not by reducing the mass
but by weakening the heart. — It draws
a determination to the surf. to the internal
viscera — as proven by the efficacy of rel. pos
in atony moderate bleeding seems
to increase the position of blood, thus rel.
Bleeding carried too far produces cong. of 3rd kind this is often done
2nd "general superficial"
Paralysis of capill. Always in the
atonic in the highest degree — S. Lyne.
Narcotics Int. of tod. almost absolute
Almost always safe Most powerful stim. of the
absolute of blood — checked in all
"Opium only palliatives"
Laryngismus, &c., &c.

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"General visceral cong."

Cerebral & broncho & rect abdo

act. of heart is increased & atm. pres. Heart Disease of

preponderates. & phr. &c. Hemorrhages

caused by congestion of the heart &

generally

The nose the heart is taken as

the key note with it he to pierce the capill.

and the gradates it to be the organ of brain

&c. what of the rest. Brain suffers most

in contact with atm. pres.

& the sole agent of circ. resp. think pain &

fever it rein

Good says that the nose

blood is taken away the more pain is local

congestion &c. and deceptive pulse & face of pale

Peasy says it is common by &

in his experience as invariably the case that ex-

cessive debilitating causes, even apoplexy

det. & head &

Copeland says but local determ.

is not one a cause of exc. Blood to

death gradually There cerebral organs atmos

pressure by dissection. He says he by dissection

lost their lives to Peterin

hemorrhage along the art. running

of the head but rarely the upper extremities
&c. He knows the fact but states
more frequently, in says, of the case of low stages
of fever than of the most congestive

Bouillaud says that after death
from haem. cerebri. rel. com. pulm. says
in any case one ought to death.

Bonner — case of epistaxis
upwards of 35 lbs at a few bleedings — con-
tracts of considerable — muscular strength tolera-
bly good & the very last — after artificially
before death he could raise his left hand
when there were but a few ounces of blood in
his body — were it not for excessive quickness
pulse rose after bleeding — (i.e. quick pul-
king)

Farre, Johnson — in animal bled to death for experiments from
the jugular — brain & spinal marrow — to
full of blood & to indicate blood — to
also contain water. He says any one
must have seen water effl. in to chests
in pneum. with typh. fev. — for bleeding
Corrigan for. Remarks on the page
for ½ gall. of blood — fevers.

It must be remarked that the
[illegible] fact is trivial. Prof [illegible] has often had
[illegible] always found it weaker. In [illegible]
[illegible] enteritis for instance, the smaller
[illegible] diminished the art. becomes fuller stiff
resists pressure less i.e. is less strong — This
[illegible] called a rise of the pulse
In typh. enteritis bleeding will take away
[illegible] the hardness but restore the force
Wiriness may be produced by irritating
[illegible] e.g. dysentery which will not
[illegible] colonel Cal. will produce wiriness
The nervous disturbance caused by
[illegible] hemorrhage is not Prof. i thinks, pro-
duced by irritation pressure on the brain, as Cop-
land thinks, but irritation from anæmia
like [illegible] and starvation. There is
[illegible]

Paralytic cong.
[illegible] in any part — by division
[illegible] of different resistance to a larger
[illegible] a tonic

Inflammation in any part by a specific poison, either entozoic or atomic according to the atomic or entozoic character of the inflammation.

Congestion is essential when it occurs invariably — accidental when not occurring.

Remedies

Agents of Simple Irritation

1 Simple irritation or peripheral excitement by increase of strength of heart — atomic regurgitation

2 Simple visceral congestion by diminution of strength of heart atomic regurgitation

3 Simple hyperæmia produced by weakness or relaxation of part or whole of vessels, requires regurgitation

chemically local it may often be cleared by ac. pl. assisted by stimulation of atomic

Inflammation produced by topical irritation other entozoic or atomic or viral requires reducing chemical or diabetic

It is common to consider various articles as tending to produce &c. of circulation generally, tonics &c

But Prof. S. thinks none can exert by increasing or diminishing the strength of the heart or producing local hyperæmia &c.

above notion is incorrect. No tonic can be congestion except in cases

Narcotics can be under certain circumstances used improperly The retrogressants e.g. blood letting & nauseating the use of tart. ant.

Writers talk much of congestion fever as if it were a specific disease But is there a fever which is not congestive? Prof. S. has never known one of those gentlemen who have kept up the with the progress of the prof! do in fact bleed in every acute disease - antimonial stimulation! Witness bleeding in sporadic cholera

The pupils of Cullen who considered congestion as a very important

matter vesicular diseases and better than the present phys.

Congestion requires no peculiar treatment which the disease in general and the existing symptoms require

The following then are the guides for our prescribing 1st gen. cause of sympt.

2 nat. symp

3 known laws of the disease

Hope in of prescribing to remove the cause is obscured. We know more know of than we do that of secretion or generation or the substratum of matter

Typus

By some ~~authors~~ peculiarly in appearance those only will be treated which influence medication. The symptoms peculiar to the typus will be mentioned

Putrid typus notices
of attacks

Preparatory Treatment

(From Tulcott's notes)

Preparatory steps are sometimes necessary, such as depleting or exciting the vital system — purging or restraining diarrhoea — equalizing excitement — removing pain & irritation — or obviating torpor — allaying heat & dryness or checking the profuse perspiration of the skin &c. Such preparation seems to produce a less critical crisis, lessening if it does not shorten the disease

If such preparatory treatment is improper the disease is aggravated.

This preparation will be effected in analogous to predisposition in bringing on a disease. Thus at the approach of the ordinary term of menstruation a full bleed. or free cathartics &c. prepares the system for the operation of the change.

If the minor points are overlooked the phys. is apt to be disappointed in his principal indication. This is a great cause of difference of opinion among phys. as to particular modes of treating

In typhoid cases it is highly important to keep up a uniform artificial excitement.

Additions to Dr Watters

(From Tuke's notes)

It is common to suppose that acute phleg. infl. are always tonic. They are never so when the state of the blood is atonic, unless the local infl. is inflam. I know not a single exception to this in practice.

Infl. from mechan. violence is often atonic, depending on irritation & to be relieved by opium. I call this kind irritative infl.

Local affections take the grade of action of the general affection #

In the atony occurring in malig. acute diseases also produced by bites & stings, by lead & mercury, narcotic poisons, carbon. acid, lightning &c.?) there seems to be a total suspension of the secretion of the sensorial system. Hence there is no rigidity of the muscles after death or coagulation of the blood.

Example. In Middlet. during the prevalence of t. fever. I dressed an incised wound simply as usual, but

and after 5 days it as it had not healed in the least no suppuration of any consequence — Various applications tried till finally I succeeded by Iodine Charged with verdigris which produced sufficient inflammation

Sydenham is the best author on diathesis

The pulse of health is not a standard by which we judge of pulse in disease

The heat of Cauma is thermometrical — not so of Calor mordax which leaves a stinging sensation on the hand

All chronic cases are not atonic

Pain of some of the exanthemata and which are attended with Cauma

Heat, soreness, pain &c. are supposed to be greater in entonic cases But it is often otherwise e.g. orchitis-ophthal. &c.

Rheum. infl. except the phleg. arthritic is ever entonic. Phleg. rheum. infl. may be entonic or atonic or intermediate.

Erythem. infl. is neither never but atonic or neither. Arthritic is atonic with us but in some places is entonic.

A change from ectonic to etonic occurred here & about this time all over the world apparently — except in N. Holl. — The diathesis there is ectonic & there has been no epidemic there for 40 years

The atonic diathesis is that of [illegible] Cholera of India & I believe the same thing as T. typhus. (1830) Under this diathesis we meet with the variety of small pox which attacks those who have had disease before. Distinct small pox is generally ectonic But I have seen it in any atonic case

During the prevalence of one diathesis diseases of the opposite grade of action are rare & less strongly marked

The robust & healthy suffer more severely than the feeble from either ectonic or atonic diseases Popular opinion is correct on this point & the usual medical one wrong

It is laid down in books that the robust & healthy will have ectonic & the feeble atonic diseases — but both these are subject to the diathesis. Pneumonia & Pleurisy are the only inft. which authors will allow to be atonic

Crisis

The fevers have paroxysms the continued and to be here the daily

The majority of fevers are believed to be in favour of the opinion that fevers have critical days. The greatest discordancy and deficient

Rob. Watson. (Jamaica) 1st in quotid. final crisis in odd natural day 2nd in semitert. takes place on an even natural day 3d when type is sesquiquartana every day.

Continued fevers observed in hebdomadal periods by the calculation of the modern is owing to false reckoning

Continued fevers of Prog. in their general observe certain fixed periods 4, 11, 14 20 & 21 are the most important 7 of secondary importance 3d 5th 11th of little & less consequence than 1st 5 9th 2d 4 prospectly incomprehensible to him for the 4th could have no considered critical except by the patients dying on the 4th. & he patient may survive 40 days after the critical sinking.

The subordinate periods are more or less 9 days &c. it is also

The pulse begins to commence to rise at these periods. This explains the mistake of those who do not believe in the breaking up of the disease after 14 days. It is in these days that the effect of the treatment shows itself. It is to be observed, that the syncope, sclerosis, &c. may destroy the patient in the first paroxysm.

If 7 day disease may run on to 14 days. If 14 day disease cannot run on longer than to the 21st. After this we have merely a state of debility for debility.

"Crisis" denotes judgment a period when a sudden and remarkable change enables us to form an opinion.

Hemorrhage sweating, purging vomiting bronchial discharges &c were believed by the ancients to occur certainly on the critical day. Eruptions, (in small pox) buboes, &c were imperfect crises and assisted us in judging of the fever, as did other symptoms tongue &c. This doctrine is undoubtedly true if there moderate, and meet treatment with respect to tonics & typhus fevers both. But in our mode of

ment, these relative critical ~~treatment~~
changes cannot occur — and we must
look out for slighter changes. Prof. T. does
not recollect a single Synopsis referred
marked by Hippocrates, which we do not
observe as well as present. Their spon-
neous haemorrh. is prevented by our bleed-
ing, their purging by our cathartics, their
vomiting by our diaphoretics.

In a crisis the Countenance assumes a
bright and animated aspect the eye
brighter ~~pulse~~ pulse, larger the general chan-
ges &c. respiration improves, morbid
evacuations, became natural — thick or
muddy urine (high coloured also) ~~deposit~~
deposit a sediment or standing &c. In a
fatal crisis the reverse takes place.

Prof. T's Synopses of fevers
4 genera in general.

1st 1 paroxysm only — often mortal & acute

2nd several paroxysms & divided into
1 remittent 2 intermittent.

3d Continued — also for beginning to end 14 days
Typhus J. infantum — Child fever
the 2 — also in to be called remittent

T. nervosa T. delirans (del [illegible])
T. Carcer T. [illegible] da Crem, T. typ. cap.
epidemic
probably also malignant Cholera
T. ictis T. ictero-des (by no connexion with marsh influence by diff. laws from remittent not being remittent) T. putrida,
T. subputrida,
4th enter. 7 days Cause is the only one
Cause 7 days

Continuous fevers are subject to a quotidian exacerbation, and as Prof T. contends to a hebdomadal period

T. subputrida (typhoeha,) nervous and in putrid fever 14 days,
cephalalgia, paresthesia, hepatitis, the recorder of enteric rosalia chicken. catarrh. 14 & 7 days
Acute rheum. about 14 d

Absurd treatment will not destroy a patient except on a critical period: & even then the const. may triumph
It is calculated that the old heating practice in small pox did not destroy more than 2 out of 3. & probably atonic treatment in fevers arising by the decay & paresth-

mild; malignant would not be more fatal
Goods, especially with the contrary notwithstanding

Critical periods are septenary,
tertiary & quinary

Reckon by number of exacerbations
in regular intermittents. Others begin
with a paroxysm & end with a paroxysm
i.e. reckon two paroxysmal days and the
intermediate days. e.g. quartan 1 . . 4

We must take into account also the
hastening and anticipations - hence
the termination of the 1st quinary & 2d ter-
nary period will coincide on the 5th day,
hence the 5th day more dangerous

After the 14th a critical effort is a
relapse ~~In this way~~

In this way Prof T. adds 9 ths
to explain all the apparent anomalies

We must ascertain precisely when
the first rigors commenced, the day and
the precise hour, and reckon from it

It is of the greatest consequence
to be aware of the time of a critical effort
so as to be at hand, to meet symptoms

We must strengthe the patient beforehand &c. Leave directions to be sent for at this ~~day~~ time

Malignancy & Non malignancy
These seem to be the best terms. Pestilential and ofttimes putrid has been used.
Typhic (a cloud) means simply irregularity. Gelatigenic have been used for non malignant but non malignant diseases may be very severe. Adynamic has been used by the French.

Malignancy is a peculiar resemblance of vital principle in person to vital principle not accompanied with irritation. — may be so suddenly. There is reason to believe that this is seated in the brain & nerves and shows itself most in the circulating system.

Malignant fevers have been defined to be those which are accompanied with severe cerebral, nervous symptoms. These often are met with, but are met with also in non malignant fevers

They have been defined to be those in which the real danger is greater than it ap

correct. This is not philosophically true. The dangerous symptoms may not be very obvious, unless by close observation, and long continued and careful watching.

Many suppose that all diseases of the putrid type are malignant and that putrid ~~is~~ is a synonime term. True it is, that all highly putrid fevers are malignant but all malignant fevers are not putrid e.g. the Cerebral & Typhoid

The leading characteristics are said to be great exhaustion, great disorder of the function of the brain &c. &c.

Patient is often, in case of a sudden attack, in as much danger at the end of a few ~~days~~ hours or 5 or 6 days as he would be in ordinary fevers at the end of a fortnight. The thoracic viscera, as heart, hypochondriac viscera &c &c. muscular strength often greatly increased or diminished in proportion to the other symptoms. ~~must~~ pulse very quick or must be observed pulse very unequally distributed in the body. patient has no pulsation in extremities, and yet requires 3 or 4 men to hold him very short or very quick beat of the pulse

especially if very weak also in Rosabi
cases (the kind occur in which the pa
tient will not be very sick and will even
recover, if not injured by a proper evac-
uation or great errors in regimen -
Even in the most dangerous of symp-
toms the tongue &
pulse may be morbidly natural

Suicidal cases of malignancy
may occur in which the patient will not
be followed by his friends, to their danger

Malignancy may exist without
heat, pain, thirst, coldness &c and
be entirely overlooked by all but practi-
tized observers

Plague yellow fever scarlet fever
malignant pneumonia, & pestilential &c
may be malignant and highly so without
violent symptoms and will bear no re-
ducing and require counteracting evac-
uations to be used with the greatest
caution

Malignancy seems often generally to depend on a primary paresis of
the brain - while in non malignant
diseases the brain seems to be affected

secondarily upon the non-affection of another part.

It is of the highest consequence in prescription to distinguish between malignant and very severe non-malignant disease.

The French have made malignancy a nosological instead of a pathological distinction. This cannot be well done. Diseases will have to be divided. While malignant & non-malignant diseases run gradually into each other.

Malignant diseases are of the class intermittent, and generally of typhoid fevers. Tetanus seems likewise to be malignant, when opium will not produce its specific effects. Tetanus seems sometimes also to be epidemic or endemic. Still these and other malignant forms of tetanus may be merely disguised fevers. Continuous fevers do occur under disguised forms, though less frequently than in low climates. The latter for instance may take on the form of hemicrania phthisis &c.

The capillaries or the general internal blood vessels may be gorged from the malignancy, affecting as it does, the blood vessels. This will be an effect of the disease as a cause, as Armstrong supposed

Counsellors are apt to misjudge Case Prof. T. was called and thought at first that the indication was to stop [illegible] 2. op. 40 gr. traced 1 gt. in 24 hours did not change — thought the pat. would "grow worse" — another phys. on duty the day with the mid. alive & well — cured

The indication, in malignant diseases are first to counteract and if possible [illegible] and afterwards to support the patient until the disease has run its course In malignant cases, the first indication is to support the patient — then we may attend to particular symptoms, as we can. In malignant fevers quinine & stimulants are not indicated but stimulants The more severe the malignancy, the more simple must be our treatment e.g. in severe cases of pneumonia alcohol alone with ammonia and in putrid cases Cinchona or quinine

In all malignant diseases

perhaps the narcotics, and especially the nervine narcotics, are always excitants. They seem to be capable of producing an <u>erethism</u> of the brain i.e. an exalted degree of activity

In severe malignant cases, articles will not produce their effects, e.g. arsenic will not when pushed to its greatest extent produce swelling of the upper lip of the wrist, back of the hand &c.

Whatever has an immediate effect upon the brain and nervous system ~~& ~~ only ~~all~~ is calculated for malignant cases. Because they are pathic with the skin and rectum, hence the use of the hot bath irritants, turpentine injections &c.

Predisposition

Means 1st Epidemic constitution or diathesis 2nd the precursory symptoms which precede fevers – especially typhus particularly the nervous – not much the phlegmasiæ

Cases of fever which appear to run their course with only the precursory symptoms – example which is Paredes menstruation of Darwin

For 4th Constitutional or hereditary tendency & peculiarities of structure & function –

The first kind belongs to Dr Lees

The second may continue 2 3 4 5 or even 7 weeks the disease shewing to how it regularly proceeds day by day – Occasionally continues 6 or more weeks – Then if the diseases do not follow the case will be considered one of the third kind. If the disease follows the symptoms will be considered as the predisposition. [illegible] in the constitution or the strength, rapidity & relation of proportion of some or all the vital actions & that disease consists in their variation of quantity of the vital actions, from the standard of health but this is by the bye

Acute & Chronic

Acute is loosely used for sudden & violent yet acute is often used in vain

In strict propriety acute applies to diseases which have a definite & regular

period often in acute (more or less regular) either in resolution or death

N.B. many cases of typhus are longer in duration than many Chronic diseases

Chronic dis. are not confined to a regular period & do not terminate either in resolution or death. Intermittents seem to be the connecting link. Hectic is chronic. Asthma is a chronic disease - the paroxysm however is acute. So of Gout & Intermittent. Chronic dis. may not shorten life!

Acute & chronic are convertible and for phlogistic & antiphlogistic

Sub acute - if properly treated are cured, but if improperly become Chronic, (or if neglected). For instance Empl. of lungs i.e. sub-acute may be neglected or improperly treated terminate in confirmed phthisis

As a general rule you cannot convert a genuine acute dis. into a Chronic one e.g. Cancer, typhus, pneumonia

Sporadic Endemic Epidem.

formerly these terms were used in a definite sense. Endemic & Epidemic are now confounded on account of the attributing marsh influence to decaying vegetable & animal matter. Marsh influence is the predisposing cause that determines the nature of the disease. Decaying vegetable or animal, are merely the exciting causes, and the nature of the diseases excited by them is determined by other causes

Endemic dis. attack many persons at the same time, owing to some local cause. As neuralgia, a hemicrania a jaundice, a dyspepsia, exist which depend upon marsh miasm. - these are not febrile

Epidemics occur without any assignable cause - spreading over a town, a nation, a world - none but fevers are epidemic - Confined to no seasons nor seasons

Demulcents

Allay irritation internally — externally relieve pain soreness, and swelling; promote a resolution or a suppuration of it. according to the stage of the inf.

In former either by
independent of any nervine or narcotic power. The latter operation is called by Murray and Cullen emollient. Prof. T. objects to the mechanical explanation of both given by Cullen & Murray — viz. softening the external parts & involving the acrid or stimulant (i.e. irritating) matter. — on the contrary at the commencement of catarrh there is a diminished secretion at first — then there — increased quantity of a sort as bland & mild as any demulcent of the M. M. Catarrh does not originate by the secretion. It is a specific inflammation. The irritation is not probably at the top of the bronchia as Cullen supposed, but in the bronchial vessels.

The impression of a demulcent must be on the nerves of the part to which it is applied (a vital operation) which impression is transmitted by continuous sympathy — i.e. continuity of structure.

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Irritables nephritis &c. It is evidently impossible for the demulcents to act upon the diseased part.
Called by his admissions overthrown, &c.

The operation of demulcents upon the urinary organs, which Prof. S. thinks will [illegible] be very considerable, is manifested by means of a soothing influence upon the stomach.

It is supposed also by many that all the acrid and morbid secretions, or the same, discharged from ulcers, though are acrid and irritating, because they produce an effect.

The term emollient has been, especially applied to poultices for external use, to clysmic mucilaginous or oily applications applied to a burn, or an inflamed eye or injected into the urethra are called demulcents in general. Prof. S. does not make distinction. The application of cataplasm is called by Prof. S. maceration by a soothing and equivalent effect upon the nerves of the phlegmon par excellence - and

the promotion of suppuration, and finally the reduction of the swelling is a vital operation upon the absorbents. Cullen's notion, about lessening the cohesion, and increasing the particles and diminishing friction are entirely mechanical hypothetical and absurd.

A mollient cataplasm may produce an effect upon the nerves as readily by tickling with a feather.

Emollients are capable of producing their specific effects when the disease is in an internal viscus - though best to be sure when if the disease is upon the surface to which the emollient is applied. Cullen's notion that those articles which swallowed may prove emollient, is entirely improbable.

Prof. T. concludes the operation of emollients and demulcents to be mechanical - a vital operation produced by mechanical and not mechanical operations in the agents employed. a certain antirritant effect upon the nerves of the part or of a contiguous or continuous texture

Prof. T. denies that demulcents may as Cullen thought be reduced to substances of a nature similar to mucilage and fixed oils. On the contrary are here farinaceous substances, gelatinous substances &c.

Murray's catalogue of demulcents is unlimited on

Murray's direction to use a large a quantity of a demulcent as the stomach will bear, is a very bad one for most cases

Prof. T differs from Murray in his sentiment that the principal use of emollients is owing to heat and moisture. He did not get the same effect from a piece of flannel, kept constantly moistened with warm water. He keeps, the farinaceous substances &c are in his view, and in that of the continental writers, the main part of the cataplasm.

Saponin is the principle of the Saponaria officinalis, a plant which contains, also a mild essential oil, like arum — the saponin is produced by washing the roots in cold water repeatedly

On the continent of Europe the raisins, figs prunes &c. are much used as emollients

5 roots in fact viz. mucilaginous farinaceous oily, saccharine & gelatinous
The mucilaginous are the best and often est prescribed by physicians. The saccharine are the pleasantest. The farinaceous are more agreeable to the taste, and more nutritious, but are thought to be less efficacious - perhaps however because they do not coincide with the fashionable stimulating regimen. The saccharine have been supposed formerly to injure the stomach, to produce intestinal worms, and be causes of the teeth. These prejudices do not now exist, but the effects remain.
Horehound added to candy merely prevents too much sugar from being swallowed

Vapour bath & Warm bath
& fomentation and vapour of burning alcohol and friction, with olive oil as in the Levant Plague

Solutions deobstruent are too nutritious to be long continued.

Demulcents are a cake article but may be injurious in low atonic diseases they are proper in phlegistic death after bleeding and in irritation which is neither in[illegible] nor atonic

Prof. T. coincides with Ed. & Rav. in thinking that a long continued use of demulcents is ~~[illegible]~~ debilitating — as is seen in Simon's Bex Phthisis &c when the patient is very feeble

Broussais has brought himself into notice by ~~[illegible]~~ using demulcents and depending upon them in the cure of ~~[illegible]~~ diseases to which they had been ~~[illegible]~~ thought ~~[illegible]~~ of little use.

Diseases — Doubted by the Broussaisians and some others — of no value the disease will do as well without anything, as with demu. alone. Tooth edge — an idiopathic dis. — inefficient — Di. depens on stomach

Acute idiop. ptyalism which Prof T. has known, as a small epidemic frequently palliated by demu. in the mouth. So of mercur. ptyalism — a mere palliation

Dipsosis aqueus (drunk in water) demu. said to be better than simple drunk

All the cases that Prof. J. has seen have connected with affs. of alimentary canal & are yeasty & acetic beasts. There is a dispersion among of drunkards leaving off their habit - these are better than simple drunk

Dyspepsia by the Brunswicians, Prof J. has had patients who had had their stomachs kept distended in N. Y. by flaxseed tea - mischievous. Colic pains & rachialgia a practitioner of Prof. J.'s acquaintance says he succeeds by enemata generally of mucilage, beginning early. Prof. J. does not think Diarrhoea vulgaris alvine not in plicæ has been placed upon colleges to relieve them the bowels from the morbid secretions. These morbid secretions are effects not causes useless.

Cure for cholera in the 2nd stage

Poor tenesmus & mucus - do little good taken internally, but palliate & are serviceable by injection

Cholelithus means - (gall stones) to relax and facilitate the passage of the

gall stones – for in labo, are probably better as dof some use – opium is the main article

Acute coryza (cintonic c. of Good) relieve somewhat but cal & dover p. – or well cure the patie & at once & if the disease retains continually use a clara & bloodroot

Spasm. cough & whoop. cough &c. do make patients cough as – less, if kept in the mouth must not be de-

stroyed as –

Dyspnoea & accomb. & Asthma – re-lied on by the disc. of Brons. – useless – All phlegmonous topical infl. – for two purposes early for alleviation of pain – & in cases afterwards to promote suppuration and also allay pain irritation, &c. Emplasms best Cantin oil & mucilage – must be hot moist not wet thin &c.

Cataplasms are found to be bad. however about the eyes.

Various specific infl. shd not be made to suppurate e.g. mumps and even in phleg. infl of the parot. gland

Erysipelatous inflammation of the breast (female) Calaplasm do not do so well. Use plaister (of brown diachylon for instance); boller. But inflammation of female breast ~~ought~~ suppurates ought always to be prevented by accurate pressure by evenly applied by various means, acrids in form of embrocations e.g. arnica &c. – by lapis calaminaris on flannel, or in cream or in cerate (very certain though inexplicable) & by various other articles.

Erysipelatous abscess, carbuncle &c. and inflammation of urethra & vagina, are not to be omitted by collapsus &c.

Some phys. treat Blenorrhoea &c by demulcents internally & externally

Burns Theory is simple enough. The irregularity about the application is in practice rather than more and it seems utterly various. Lime water and oil used here in N. Y. is probably nothing but demulcent.

Tonic phlegmonous inflammation of fauces (quinsy) not often met with

Erysipelatous inflammation of fauces requires acrids and demulcents to cure injurious

Ext. phlog. pneumonia a severe cough &c in the early stages of much importance valuable in general phlogistic diseases

Calomel may be used

typhoid pneumonia not well adapted applied as formerly, advantageously in Pneumonia &c

Phthisis. It affords relief to the cough is more than counterbalanced by oppressing the stomach &c.

Enteritis should be relieved by bleeding &c. and distending the stomach by diet. should be avoided

Aphthous

Ulcers in fauces (a specific ill. of mucous membr. with not more tendency to surgery than in other enteritis) of no great use

Dysentery useful by enema & externally not by the mouth

Gastritis & cystitis

Ill. of the joints not always, nor completely

Syphilis has been cured according

& the best testimony — by dec. &c. —
Paralysis agitans var. Prurelus a very troublesome complaint relieved by dec. better to oxygen digitalis,
Paralysis Phthisica var. uter. — better cured by op. hyoscyam. &c.
Lithic remedies — of little use
There are many other surgical cases
In general if demulc. cannot be topically applied they are of little use unless in case of Continuous sympathy as in case of swallowing de. to the stomach for pneumonia — or in contiguous sympathy — as by large emollient cataplasm, over the liver in hepatitis
The most important demulcent is the gum of Acacia vera & A. Senegal the bark of which contains gallic acid & one sort of dragon's blood in ball — the dried & expressed juice of the green legumes — it is astringent.
The solution of gum arab. becomes after a while vinegar without any apparent fermentation. Hard water disturbs the solution hence soft water only shd be used

Astragalus "Gum" is a salt-trying principally forming gum-resins.
The books call them ~~[illegible]~~ cathartic – but all flowers are cathartic ~~[illegible]~~ unless narcotic is too much to be used.

All mucilages are solutions of gums the gums of Peach Plum &c. may be used as substitutes but are less elegant

The most important modification of Gum is G. Tragacanth (Astragalus verus – generally) – one part forms as much mucilage as 25 of gum. ar. Medicinally the same as g. arab. & Cretion & A. gummifer also the latter less valuable. A. tragacantha is expressly 2d to produce no gum

There are then 2 kinds of Gum g. ar. g. trag. & cherry peach &c.
Gum is soluble in water & not in alcoh.

Other demulcents are from Linum usitatissimum Linseed meal makes one of the best emollient cataplasms you have both the oil & the mucilage
Sedamen indicum – from the whole

plant – the seed contain also oil yield greasy oil (it is said 40 per ct!) the oil is a good salad and lamp oil (Bene plant)

Trigonella Fenugraecum – whole plant but esp the seeds. used in [illegible] and contain also an active principle, very pleasant aromatic, cultivated among us – flavoured the old dyachylon

Nymphaea alba the bark internally, & ext. supposed by some to be superior for some cases

N. Americana probably a mistake for N. f.

Quince seeds afford a large quantity of mucus have little quince flavour

Acanthus mollis whole plant in cold water

Arum esp. grows in dry situations – called wake robin – ~~Whole plant not used~~

A. rotundifolium holly hock not so pleasant

Althaea officinalis. Marshmallows. Called not cultivated called Rose of Sharon

"Root of Spikenard" Nard. Syriacus

whole plant – especially the root bruised & boiled – somewhat of an earthy taste though

Malva rotundifolia Malva sylvestris

Viola several species – roots v. peculiar emetic & cathartic. thought also by Prof. J. to be depleting, diuretic & consequently diaphoretic.

Cocoanut Nucifera pith of the eyes split by cold water & rasp or decoct. flavoured with sugar

Cornus spectabilis root said to abound with mucilage extolled by Thatcher

Cetraria Islandica | Parmelia &c. &c.

contain a bitter tonic & a mucilaginous principle by macerating in cold water you may get the bitter principle separate & then by boiling you can get the mucilage by itself Some value the bitter by itself When the two principles are together it is nauseous. Prof. S. could never discover the nature of the principles of bitter tho often bitters & mucilages

Cannabis sativa seeds

Senecio vulgaris abounds with muc. used mainly for calefacient properties & probably em. & cath

Polygonum &c Eryngium &c

Asclepias Borrago

Asperifolia roses, (couch grass) with well in Force no better probably than other grass

Cucurbita melon & pumpkin seeds are mentioned by Duncan &c.

Melilotus 2 spec.

Farinaceous demulcents

Amygdalus Comm. almond kernels used for emulsions - beat with water - milk used with us

Lilium Cand. - abounds with mucilage & farinula - bruise & boil.

Maranta arundinacea - the arrowroot of the shops - which is apt to be potatoe starch. N.B the decoctⁿ, of farinula is as good as the decoctⁿ of mucilages.

Jatropha manihot - cassava - the acrid principle is washed away

Triticum sativum - wheat starch

Oryza sativa -

Hordeum vulgare & H. distichon pearl-barley (decorticated)

Solanum tuberosum - potatoe starch

Symphytum off. - roots (comfrey) more disagreeable than Lilium but less so than potatoe Phaseolus farinosus root very large & abounds with farinula Salep. Ought not to be powdered as in our shops - Orchis mascula - the tubers - peel from their cuticle - scalded & dried & then look like horn - must be grated & boiled

Sagus — from the stem & pith of nearly all the palms in greater — principally Metroxylon sagus

Secale cereale (rye) & Avena sativa

Zea mays — Honey is the most

Of the saccharine demulcents honey is the most popular. Candy is the best — sacch. Juglans, Cinerea, pumpkin — mucilaginous, roburdif. manna purgative Ulmus fulva Ziziphus (Jujube) Panax quinquefolium (Ginseng) Liquorish &c. &c.

Oily demulcents a delicate article

Olea sat. — sweet oil, oil of hickory nut, — &c. In our country we do not use oils alone but combine mucilage & sugar. Myristica moschata — can be eaten with pleasure

Palm oil (Cocos butyracea) Nutmeg oil Laurus nobilis a concrete fixed oil Theobroma cacao chocolate nuts solid oil — per cent. — used in, in cookery, no better

Gelatinous demulc.

Ichthyocolla — isinglass from Acipenser huso &c. (sturgeon)

Taurocolla from the feet of calves

Succh. denude. Sacch. cryst.
is best if well prepared (Sirrol. a
in 2 or 4. No sweet is tolerated so
long as it crystallized in grs
Syrup of sugar is in powder
Glycyrrh. glabra sort & ext. by Sacch.
It called is often burned sort here
Cundo is an indigenous species
Concerning whose powers there is much
dispute. Quassia is denude, sacch.
Cinnamon. Cinnamon aromatic
& bitter. Galanga Cinnamon
used in this vicinity (wild liquorice)
The principle of our shops is barely
given to give an it flavored

Oily Dens.

Nut oil is from J. regia (Persian
Walnut often called Eng. Wt.)
The oil of shell bark hickory nut is a
pleasant article. Palm oil is from
the seed of Cocc. nut. Oil from the
Cocoa nut will probably be good

Abscess of, such as a decimbee & from the eggs of Phasianus gallus.

Warm bath - Alcholic bath Friction with oil are emollient processes.

Irritation By their force size gravity or other external & mechanical properties, effect any other way the organic elements the skin or al. can - or which mechanically agitate the whole body

Irritation is an extraordinary excitement of the irritability (Travers) definition good for nothing. He says it is the same thing. Brit. Prof. J. says it may be an affection in any function

Irritation is always a pathological or a remedial condition and not a specific disease (Mr. Travers) but only of pathological terms the irritation of each disease is peculiar to itself kind different also in different parts. Irritation is rather manifested what the least symptom of infl. e.g. pain, in the joints cancer, bladder tubercle stone in the bladder colic derangement of brain. The pain may be removed from the affection as is seen in neuralgia so

In all these cases excessive pain & irritation does not produce infl.

But acute & permanent local irritation will produce inflammation. And it may excite irritation

Local irrit. may [illegible] ate in reduction or in local infl. or in Const. irrit. - Trans.

Remedial irrit. may be produced by the medic. qual. (i.e. expectorants) or by the mechan qu. (i.e. irritants)

Enteric irritants - often constantly mistaken for stimulation. Still they may always be easily distinguished. Here stimulation is always attended with increased vital energy and strength of action & never produces inflammation. (i.e. enteric infl.)

Irritants form a connecting link between the vesicatories and the more mechanical - But the medicinal irritants are treated of under expectorants

1st Frictio agitatio i.e. exercise of all kinds

2nd dermatic irritants i.e. friction pulsation

clear porous dry chipping scarification

3° interstitial viz. e.g. felix of iron (principally) pulvis stannii

Formerly many other irritants were used with success e.g. pulvis vitri = silica - lead quicksilver pulverised porcelain charcoal (probably) operates on this principle

Travelling operates by thus (vide F. Johnson)

The first effect is a diminished corporeal sensibility nerves less irritable weight & resp. is increased, digestive & assimilative power is increased (as is proved by the costiveness of travellers) Hence the absurdity of the precept eat little & exercise much! No maxim can be more false than the maxim not to eat a variety of food

Travelling has great influence upon the absorbent system hence diminution of obesity. Active exercise quickens the pulse Passive exercise in a carriage renders it slower. Hence its use for invalids of hysterics from dyspepsia use passive & irritability of the heart. & active exercise, as is done in travelling.

In travelling the constant change of air influences the state of the blood itself. A mere change from one air to another is beneficial to the human body. Consumptive complaints are worse in the sea shore & better in mediterranean countries.

Travellers & stage drivers have a ruddier skin. The blood is darker & redder (Brochure).

Passive exercise Swinging or whistling gives palpitation vertigo nausea tendency to sleep evacuation of blood & secretion of saliva. In a horizontal position life may be destroyed.

Friction is useful in diseases of the abdomen. In Friction & percussion have been in use time immemorial by aboriginal dis. (vide J. R. Jewett's residence on N. W. Coast. The Indians cure cholic by it) Its utility is well known in chronic dropsy paralysis &c.

Frequently these mechanical agents are used to by friction e.g. opium will

relieve spasm best in this way

Gin. Champ. – A wine-glass of the strongest made

Most of the internal or clinical irritants are little used now. They were formerly employed in dyspepsia [illegible]

Dr Todd has for 30 years employed powdered glass as a vermifuge 3ij every morning for a week and a dose of Cal. the last give a dose of Cal. It has lately become famous in Europe. [illegible]

Equal parts of Calx glass gentian & ginger was used by a celebrated Phys. of Ky; stated there is also a degree of testimony for Phys. that the combination would not do well with the glass [illegible] Dr. S.C.

In the late periodicals it is recommended for porrigo galeata in cera applied to the head

A family of ten persons were more successful than the Phys. in the cure of colic by aloes, opium, powdered porcelain, spices & the dried testicles of a boar. Spirit. Sperm. are of great use applied to the abdomen in chronic diseases, they augment the effects of any med. given internally

Antacids

Combine with acids &c. &c.

It has been lately supposed that the acid of the stomach is the acetic. It is the lactic, which always exists in the stom. & is much increased, often, in dyspepsia. The notion that this produced by fermentation, is a corollary of the Chemical theory (fermentation) of digestion. It is secreted, and is an effect, not the cause of disease

In certain forms of dyspepsia phosphoric acid is secreted upon an empty stomach & will produce effervescence upon litmus paper & upon a marble hearth. In yellow fever Muriatic acid is formed, in a majority of cases

Antacids are the only chemical remedies. They neither remove nor palliate the disease acc. to Prof. T. They merely prevent the irritation of the acid agent (Prof. T.)

Magnesia, pot. carb. & lime & ammonia are the only antac. necessary. They all form refrig. salts with the lactic ac. &c.

Many times a purging salt is formed
Magnesia is the most powerful an tac.
i.e. neutralizes the most acid
Antacids should not be preserved
in the salts prevented are refrigerant
Caustic potassae (& in a less degree
perhaps caustic soda) is not fit for long taken
somewhat tonic but role is to bind with
the acid & purgative!
Lime is a moderate tonic, (caustic) more
so than the others. Ammonia is a stim.
Magnesia is not tonic but forms a
purging salt when combined with acid
Lime water is a vast used, but
is far more useful when there is no acid
& do of pot. & sod. If you employ
the carbonates, you have also the free car-
bonic ac. which is a weak refrig. & is
adapted to atonic dis. & to those which
are neither entonic nor atonic - It is not
admissible in low atonic cases
You may employ the antacids for a short
time, until you can make other actually op-
erate. The use of an tac. in diar-
rhoea originated from the theory that diar.

rhoea is caused by acid & is not beneficial. Green colored stools are supposed to proceed from acid but no acid is found in them. Further do they contain bile which is not green but yellow. Experiments have proved that an acid, rather keeps up than dis. a diarrh.

Antilithics

prevent calculi & obviate their ill effects. Litho-triptics dissolve stones are formed. Prof. T. includes under the class antilithics both kinds. Litho-triptics if they exist shd be ranked among chem. rem.

In order to prevent the formation of calculi, the diagnostics of calculous diathesis shd be thoroughly understood both by the phys. & the patient. The latter shd apply in season.

As to Litho-triptics, the first step towards prescribing for a patient must be an analysis of his urine - you must ascertain the sort of calculus. Vide Berzelius's analysis.

Besides. The urine is constantly varying

Lithia renalis, sabulosa & as co-
mated only by sand in the urine. & L. ren.
Calculosa by two certain diagnostics

Antilithics are 1st and. ~~pt~~ prophy-
lactica, and are generally weak
medicinal articles e.g. Arctostaphy-
los uva ursi - buchu & extract, Ede-
ratorum, but, useless in infusion, & to
be used by decoct. dose 1 to 2 drams
about 4 to 6 a day
6 times, a day of the extract - diffused
in a liquid - used as a prophylactic in
Lithia. Chimaphil. Corypa. &
mac. have the same powers, but are
more active & are better - they are diu-
retic in addition. Andros. calyc.
is more powerful still & has the same
properties - it contains a better principle
besides & gallic acid creatum. Capsi
of G. Hope) appears to be more active &
to possess the same powers
2nd Lithontriptic antilithics - are sodæ
potash ammonia, muriatic sulphurous
acid & malic acid

Soap, called an antilithic probably by it's alkali acts chemically if any all Muriatic & sulphuric acids are tonics and the deobstruents

P. 13. Lithontriptics shd be spelt with a — being derived from θραυω!!!

In the present state of our knowledge it would seem that the avoidance of gross animal & animal food tends to obviate the uric acid diathesis — & other prophylactic is keeping up a free insensible perspiration from the skin. Lithontriptics are Lime water — potash, soda, & magnesia — ammonia, being thought to be solvents — because the calculus ~~is~~ most consists of urate of ammonia

Lithontriptics are now pretty much given up — and have never done more than give temporary & palliative relief in Lithic results. And even in uric calculus, as Prout & Cummin — in the intervals of the paroxysm, are often more consequences

Rot of Collinsonia Canadensis has had considerable attributed to it as a

prophylactic in lithia. Some persons think it of high efficacy in the calculi of the
Gastric liquid spontaneously has been known given by injection into the bladder

Neurosis

Vide Vesica & Arteria also

They are articles of reference to counteract directly and specifically the operation of poison

Poisoning is the noxious effect of an excessive or ill timed exhibition of a medicinal agent with the exception of the bites and stings of animals. Some Many declared vide virus vis vertus. Dioscorides declared that poisons differ from medicines only in dose
In Greek "φαρμακον" means medicine & poison both there is no agent as is said which cannot be safely applied to the system

Poisoning consists in irritation stupefaction exhaustion or disorganization, which produces inflammation ulceration putrefaction of the Viscera delirium convulsions apoplexy coma & convulsions marasmus which are all more or less specific diseases and are to be treated as such.

Indication, 1st removal of the poison 2nd Counteraction of its effects. The removal will be effected in various ways according to the manner in which it has been applied. In fact however the physician is always called to remove the poison from the alim. can. and this may always better be done by emet. & cath. than by chemical means, by injecting into the blood-vessels &c.

Tying the oesophagus, or any animal is a barbarous and unjustifiable piece of cruelty. Injection into the blood vessels of animals is also useless & barbarous.

Orfila's toxicology is a piece of empiricism founded only upon the notion of specific remedies, about as useless a plan of investigation as that of the philos. stone & the universal solvent. It is very strange that Orfila's American editor should have supposed that savages understood the subject better than enlightened men.

The study and the dread of poisoning are confined to barbarous ages

Anthelmintics

To cure we must bind under this article of the class
In a class they shd be treated of not in
Mat. med. but in practice, of the diseases
under which

Worms that find a proper residence in the canal
1st A. Lumbr. 2 A. teres. 3d Trichocephalus
hominis generally found in the Caecum — Vocant
& Taen. Solium 5 T. lata 6 T. lata 7th T. den-
tata 8th Fasciola hepatica called gourd worm
in Jersey supposed to be found in the Lapa —

Cordius aquaticus, found in
wells, stagnant waters Virtues medi-
cinal & sanguinea (Discovered lately in the Lapa by passing through a)

Musca cibaria Cornearia,
Historia Cestri, equi & hemorrhoi-
dalis. Scarabaeus vorans (nobilis) &
Eruca Aphis millepeda Araneus
spider. Lacerta agilis &c.

When these strange cases occur
in physician is perfectly confounded Case
of a British period. Catalepsy Epilepsy
Convulsions tonic & clonic Blindness
Burning pain at Scrobiculus Cordis costiveness
Vomiting of blood morbid appetite — pica

breath &c &c &c. A dozen kinds of insects were there &c. It was found that the woman had 12 years before conducted in her drink a large quantity of clay from the graves of the clergymen

It seems to be also daily proved (viz. dysencephalus)
that all the worms found in the body are likewise found out of the body

Various phys. have met with A lum. on found alive on the surface. Siemens has proved and others have confirmed it, that ternia exist in middle sponges &c. worms when found out of the body are much smaller & may not be found recognized except by a naturalist.

A. lum. c. is met with in stagnant waters Fasciola of sheep is met with in stag. waters A. lumbricoides is well known to exist out of the body. Case of an English country seat — found in the water of the spring & met in a microscopic state

The trepanophalus has not yet been met with out of the body

They are also now ascertained to be oviparous (they are laid and received into the ovary) the young taenidae from only in Tapeworms

to be found in the bodies of the old ones are never ascertained to be intestinal worms of the species. A. lumbricoides is exceedingly rare

Prof. J. has turned his attention particularly to taenia. He has repeatedly seen all the symptoms of taenia when none existed even upon a thorough exam.
There is no good evidence that intestinal worms ever cure the various organic diseases

Symptoms [illegible] are nausea, salivation, flesh is occasionally stinking, limits, accelerated breathing, thirst white tongue pretty [illegible] pallid, frothy, bilious or bloody vomiting, tenesmus, griping pain in stomach, costiveness or diarrhoea. Change of voice or even absolute aphonia, shooting, creeping of hands & feet, cough &c. &c.

These often exist about the same time, illness is valetudinarian & they are occasionally met with in almost any acute disease

The above symptoms are the symptoms of Typhus infantum. Cephalitis, taenia (hyd. int.) & a species of marasmus

It is well known that for a con-

Indeed in these particular phys. I still meet with no worms & in others collect met with many. Even when they exist the severity of the symptoms does not necessarily correspond to the number of worms

For the last 12 years (about)

1st worms are always introduced from without 2nd not usually developed in perfect health & when the stom. & int. are moderately weakened the worms, ofte exist in moderate numbers but are related vivacious enough

4th On the accession of acute

5 Great dyspepsia

6 Worms are ~~rather~~ the effect not the cause of disease

Anthelmintics are

1st A. vermifuga 2nd A. deleteria

3rd A. corrigentia 4th A. Complexa

1st Santonine (a tallage digenogenides) Aloe

Spicata &c. Di oxide of mero. (black oxide or grey or cinereous oxide of the black called

Ethiops per se) Di-chloride of mercury
Any drastic cath. or any co[illegible] or cath.
2 ft. delerium destroy[illegible] They are Spigelia anthelmia & Hamiltonia nareotics
Dryobalanops Camphora - narcotic nervine
& stimulant. Chenops. or th. ambrosioides
& Botrys - the essential oil - called worm-seed, but the oil is the part used. Ch. ambrosioides & Botrys are not salized. the oil
is nervine, & in large doses is ~~large~~ narcotic
Prof. T. has known it taken by mistake
to produce delirium & coma, & has
[illegible] used it - but never known it stimulate
Oil of Tanacetum vulgare - nervine
& powerfully narcotic
Artemisia contains oil absinthium - probably narcotic. Fucus vesiculosus has
been much used - it contains iodine
Aspidium - filix mas Prof. T. thanks
for his own experience & knowledge &
the way it is used, that is absolutely inert. Filings of tin &
iron - pulverized glass silex in powder
- all irritants
Arsenite of potassa Mucuna pruri-

rien or ♀ exchange Prof. T. considers it as perfectly inert - when inwisted as being perfectly smooth - Prof. T. has used it a good deal & could never perceive any effect.

A. Corrigentia - are tonics a variety of them - especially iron (prob. sulphate is the best) - chloro ferrate of ammonia calcareous veneres or martial flowers Pumica granatum

Emplex Anthelmintics are Cl. turpentine - highly valuable - is nervine narcotic stimulant & cath. Cl. juniper is similar & but inferior Andersa nemosa - narcotic debatorant, emetic & cath Veratrum sabadilla - a cride in air ♀ cath Delphinium Staphisagria - seeds Helleborus foetidus & niger

A. ver. seldom requires - drastic cath. or narcotics &c. It requires peculiar treatment. ℞ - They may infallibly be destroyed & evacuated by aloes & milk (triturated) by injection into the rectum. You may however cure by aloes internally giving Chloride of iron

Camphor in milk by injection, dose
to a cat but 10 drops, produces epileptic
convulsions not dangerous, but alarming —
in children.

Epispastics

By topical application & not by ~~chemical~~
mechanical or by chemical properties, produce
change of action, or ~~of~~ fl. or vesication or destruc-
tive of vitality.

Epispastics act by medicinal
irritants by mechanical power. Epispastics
are medicinal irritants. Irritants are not
necessarily stimulants, but may be used
as purgatives e.g. nit. pot & tart. ant.
Even excessive doses of nerve stimulants
are irritants but not stimulant. Stimulant
action can not, may be given in doses which
transcend the stimulating point. So also
con. & cath. may be given in doses transcend-
ing the vom. & purg. point.

Some epispastics, or irritants,
have apparently their irrit. act. to their
accompany, while others have no accompany
whatever to the latter, e.g. cantharis & phos-

phoea, Sternutatories are necessarily accompanied with a copious discharge of thin copious and acrid mucus from the nostrils. Errhines or sternutatories are other acrids act first upon the mucous membrane of the stomach &c. and on particular consideration

The pains produced by different specifics are of no consequence in determining their relative merits

Dr Cullen gives the following account of the uses of opium 1st to increase the activity of the system generally by means of their consentaneous 2nd to increase that of particular organs 1st by way of activity and strength of action 2d by counteraction to relieve the internal organs

Dr Phys. J. gives the following account 1st externally to the topical

2d internally over an internal affl. to modify or change or counteract the 3d externally over an internal affl. to modify or change or counteract the 4th to excite the vital energies of the whole

system observed arouse - not strengthen
action

The infl. produced by episp. is
systematic in fl. fever rarely

Epispastics are equally communicated in high & in low atmospheres - but if they are combined with bleeding or the use of stimulants or tonics they may be useful - thus if there is typical infl. Cautery &
[illegible] if more do not admit of the
[illegible] if they are complicated with typical
infl. Episp. may be used after infl.
bleed.

In other fevers complicated with
acute infl. they may often be the first measure
They shd be applied as near as
possible to the local affection.

When we wish to increase the
susceptibility & excitate torpor of a part apply the blister ~~immediately~~ if possible directly upon the part - as in a dolent chronic infl. But if we wish to counteract infl. apply the episp. near the part.

Some say that ~~this~~ there are

idiosyncracies against blisters – but we can always apply blisters by regulating their size and by keeping the system under the operation of opium –

When we wish to keep up a discharge we apply a plaister of resin sprinkled with cantharides, or we sprinkle on some lunar caustic, or apply some oil or we keep up a perspiration or a sore or an issue.

Prof. L. thinks, with Paris that in most acute medical cases a succession of blisters is preferable to setons or issues but he says that in many surgical cases setons or issues are preferable – thinking that in many cases the powder of the discharge from setons or issues is more beneficial than the serous discharge – as in stone on angl. of the vertebr. & the hip joint

Dr Fisk of Salisbury has found that as a general rule chills or perspiration takes place when vesication is commencing in the susceptible Prof. T. has often noticed this

Cantharis affects the opake

more readily and is more liable to
Coeur strangury than when upon the spine
(& the more so when light upon eye upon
the head) than when upon any other part
next to the spine is the inside of the
thighs — To other articles

Children are injured & disturbed
by very large doses of Rhus tox, they
do not bear them near as well as adults
Adults require very large ones in chronic
cases, but there is not so much variation
of susceptibility in the diseases of children

Some practitioners apply a strip
the whole length of the spine in bilious
or in chron. affs. of stom, in hemorrhoids
chronic cephalea — in paraplegia
and it is said in acute rheumatism —
(I had proved it & apply blisters to the
seat of it (rep. affs. in acute rheum.)

The skin seems to be susceptible of
irritation from this which are not strong
or not enough to irritate the mucous mem.

Epispast. have been assumed to be useful in all cases of rheum.
But they are dangerous, when the vital

energies are very much impaired

Prof. T. came to this conclusion after much experience of the ill effects of epispastics in producing gangrene. Case in which a small boil was converted into an extensive gangrene by a large blister. Whether epispastics increase or diminish a gangrenous tendency depends upon the general condition of the system.

Mr. Abernethy says that epispastics are very liable to abuse - he directs not to apply a blister a foot square - but a succession of small ones to a ~~foot~~ large surface - & cautions against ever using the combination with turpentine, but to use cantharidin instead of it.

Sources of Episp. are animal, vegetable and chemical. Hot

The animal episp. are less painful, fixed in the large muscles, there is seldom any ulceration, no excoriation. The vegetable epispastics are more painful, extend beyond the blister, produce ulceration &c.

The mineral episp. are not strictly vesi-

always but rather indirectly, produces relaxation in that a process effusion of lymph

Epispastics are acrid & not acrid

The non acrid are more powerful vesicators than the acrid being often with difficulty, ulcerated

Episp. are either pure episp. with no other power or refrigerant or stimulant

By the degree of action they are 1st antiphlogistic or rubefacient or 3rd vesicant or 4th escharotic (caustic) which destroys vitality & separates a slough, which leaves an ulcer. These distinctions are all of consequence for instance the depressing effect of lunar on the part by its application as an epispastic, and should always be avoided in low cases. N.B. Antiphlogistic article, act in the same way as rubefacients, but do not go so far. e.g. vesicat. alb. cure erysipelas without rubefacient. but may be pushed so as to produce it. The principal of this kind are Sulphur bark of root of mezereon ricinus root of dorsiferus root of bryonia vesicat. vir. & alb. & the seeds of ranunculus These are more powerful, they are therefore targeted the strongest last. Yet as e-

phus may produce rubefaction & it is said even vesication.

Other chem. art. have antiseptic power e.g. alum acet. lead (partly perhaps owing to astringent) so also sulph. zinc. proto sulph. ferri (copperas sal martis) all are of more consequence as local astringents. Di oxide of merc. Di chloride (black & scal.) Di proto nit. merc. (red precip.) a powerful caustic will be treated of among deobst. prot oxide (red precip.) proto chloride & proto sulph. copper Iodide of potassa & soda

The most important rubefacients seeds of sinapis alba & nigra. They are laxative, emetic & epispastic and may be used to produce antiseptic rubef. & relic. powers

When used externally let a dessert or table sp. of entire seeds, the exth. principle resides in the episperm of the seed) diffused in a convenient menstruum — recommended in dyspepsia & costiveness — laxative & in large doses & even cathartic a valuable

article the we wish to produce nothing more than a gentle evaporic effect
When used as an emetic, reduce to a powder as fine as possible dose a desert to a table spn.
Operates with only a momentary nausea 5 hours no prostration or exhaustion
A very certain emetic Peculiarly adapted for expelling narcotic poisons,
As a rubefacient you may make it produce a rubefacient effect for a longer time without passing into vesication than any other article. Spread your mustard upon any cloth or cataplasm Be careful not to let the rubefacient pass into vesication, for the ulcer is difficult to heal & leaves an unsightly scar. Another way is to spread the fine mustard upon sea moss, cerate (basilicon) or upon soft adhesive plaster the plasters will then adhere and may be worn. Another way is when the feet are cold to apply friction & rub them with mustard sprinkled on it or bits of cotton sprinkled & quilted into large stocking
Mustard powder loses its power upon keeping & upon being exposed to light - the

best way of preparing it is by thoroughly bruising it in an iron mortar not rolled under a rolling pin !! as is common.

Root of Cochlearia Armoracia (horse radish) commonly said to be stimulant but it is rather irritant in proving digestion & appetite & increasing susceptibility &c., deobstruent & diuretic also

The ~~leaves~~ ~~also~~ root is (spissated sub.) The leaves do not act as [illegible] but vesicate in others ~~or~~ the majority they are subsp. valuable coast the leaves rolled [illegible]

Bark of Canella Alba Bark of Drimys palustris. Inspissated sap of Euphorbia offic. much used. Capsicum

Bulb of ~~Scilla~~ Allium Sativum uncertain in strength Dr Pepper says it is similar (acrid sap) but is in Indian &c much used but is liable to affect the whole body like Rhus Ven. of more importance as a therapeutic Amyris balsifera (southern states)

Piper nigrum long pepper & cubeba used & also the oil Ginger. Bark of Canella alba - a favorite applic. of Prof Smith's in Complicated Dysenteries Hardback (Viburnum bark) is still -

are useful. Burgundy pitch. (a Resin distilled having the oil distilled off with the water) Colophony. (resin distilled with water) is an inferior

Burgundy pitch plasters are commonly applied as mere placebos & evidences of the attention of the surgeon. They are supposed to give mechanical support to the muscles. They may be so applied as to effect this "I think they may"

Recent bruises bark of English Elm use Bruised leaves of Clematis vitalba recent used in bruises vesications & green ointment. — a flannel wetted with it & then covered with a dry one — Applications in form of liniment. — Avoid exposure. Means of the essential oil

Electricity is used — exhibition may always be produced, and sometimes an actual cure. Dry cupping are supposed scarifications act on the same principle

Vesicating epispastics

The most powerful & the speediest is boiling water. Cover a cup full of boiling water (a cup with a projecting brim)

and the vesic. thick cloth - invert & keep it in until an ardity is produced take off

(Animal epispastics)

Most powerful is Lytta gigas (E. India) Lytta Nuttallii - said to be better than Canth. vesic. (N. W. State) C. vesic. C. nitidula (potato fly) C. atrata & C. Cerambyx moschatus. Melos & coarctatus M. M. Mylabris cichorii found in the Levant, used as the ancients - Mylabris Pustulata found in the Levant - All of these are Coleoptera

Phalaena neustria (apple tree worm) - the larva - equal to the Cantharis - Coat the part between two pieces of leather & use each piece as a plaster. Apis & Vespa and a large number of other insects

Veg. vesic. — ol. mon. punct. Pterocaulon cinnamomeum ol. cin. ol. malaleuca cajeputi. Ranunculi (root is best) - these are the best in deep seated inflam. of ganglia (white swelling) - also - in their operation, produce great

gyrolation and vibe cure the disease
It is more efficacious in the fall after the top
has decayed & next to this, in the spring.
It is supposed not to affect bone but proba-
bly acts only thro' the
Cuta graveolens but are apt to produce
an — empyreal infl. beyond Do also
Pistiyaceæ & Euphorbia Lathyris
the roots (Rhus) might be used on some of the
Vesicatories are applied in
form of Lotion liniment. or plaister
Plasters of blistering articles are best
confined by strips of adhesive plaister
or by spreading the edge of the plaister
with adhesive plaister

Setons and issues,
Setons are always preferable to issues
except where the patient will not keep
them up getting tired of them
Escharotics & Caustics are practically
superseded

those that are still insoluble & there
generally the Ung. Potassæ will
be preferable. They prod. E. vesic. & ulceration

Nitric acid used

Take notice nitric acid, sulphuric or aqua regia [illegible] ready to use test case [illegible] pol. Dip a feather in the acid & [illegible] & press it down over the part [illegible] & then apply it also to [illegible] [illegible] [illegible] very low & torpid fevers, & [illegible] baths

Iodine used as a test for [illegible] starch & [illegible] "If we have the desobstruent effect" [illegible] Upon paper [illegible] Hydrocyanic [illegible] for this leaves no stain

Per chloride of mercury (corrosive) is sometimes used for [illegible] It is applied to old sores to keep down proud flesh &c.

Protoxide of calomel [illegible] Nitric oxide is applied to [illegible] a lotion & plaster) is used for making issues & [illegible] potassa, & soda

Nitrate of silver is used also for [illegible] [illegible] Corrosive sublimate is also used for [illegible] [illegible] & [illegible] used as a [illegible]

powders and caustics to supersede the knife (scissors &c.) Dark coat stopped with lint and applied externally after the inflammatory action the patient is feeble or incapable, and where anything internally will be of no proper this does not seem to be the article. Chloride of ant. (Butter of ant.) is much used with confidence is thought to have peculiar virtues. Myrrh is said to effect the actual cautery. Prof. T. has seen a list of remedies commonly used in India the dose of a piece of Artemisia is used

To make an issue with pot. calcum. Apply a piece of adhesive plaster with a hole in it to the skin sprinkle the quicklime. Dress with simple cerate. Savin cerate is good Pulv. de Sabadilla is also given

The Sapo in form of an ointment was called of silver.

Cantharis Vesicatoria

Fevre called it Lytta 1.2. Serres called it Meloe 1.2. [illegible] Spanish fly, [illegible] Cantharides [illegible] 2.) [illegible] Fever [illegible] 5, [illegible] 6. [illegible] dysuria [illegible] Do. [illegible] dysuria [illegible] various species of [illegible]

[illegible] color [illegible] black [illegible] greatly [illegible] Powder [illegible] drachm [illegible] mucilage [illegible] powder [illegible] Rubbed [illegible] well stopped [illegible] well dried [illegible] The [illegible] Stocked by [illegible] Dose [illegible] destroy the active part [illegible] powder [illegible] Oxide [illegible] Sp. [illegible] Vesicating [illegible]

Cantharidin [illegible] analysis. Robiquet [illegible] Cantharidin [illegible]

called Cantharides strongly disposed
to it. It is said that the volatile or odor-
ous principle of the living insect is reac-
dily Cantharidin, altered by reduc-
ing to a powder &c vide Murray
They said that there is at least probability
to the disease would spread rapidly
under the whole of P.L. destroying
insects &c &c &c evaporating
Probably if the powder of the insect is dis-
solved in ether & other evaporating, it
would have the same effect, & perhaps
equal preparation & time to operate
sooner to blisters as they can be
readily carried to any part, with the
exception of the scalp & patients will
not be tried to have their heads shaved
Flies and Cockroaches &c. &c.
The insect are noxious. Bees are known
from the yellow spots on their backs
and the [illegible]

Earth. has been used in medicine
for time immemorial. It has been
in use as an astringent &c &c

In the 16th Century a physician Eng-

was used by [illegible] for [illegible]

Used internally to excite a natural & diuretic. Many call it the most powerful skin and M. M. It is difficult however to make such an assertion.

In health it does not generally increase the discharge of urine. It does however often produce dropsy, and under the age of 20 years it hastens it. It is laid down as a rule that it is never proper to drop it except in obstinate cases. Prof. Thomson of Edinburgh, of Theth. says Cullen has never known a phlegmasia dolens occasioned by it. Some have found it [illegible] diuretic effects first felt. It [illegible] blood vessels so increases the action of the cutaneous & excretory [illegible] upon every one. It is not necessary however to order a strong [illegible] it will [illegible] of [illegible] forcibly, then purge if it is one of the internal [illegible] may [illegible] the urine if there has been no increase of it. If there has, suspend or at least diminish the [illegible] article

To

The internal use of Cantharides is probably more frequent in this country than in Europe. Probably however many use it to their cost before the public — for even by those well skilled in practice it is hard to ascertain the actual state of the bladder

Prof. gives a small quantity of the tincture in gruel, or thick A. S. Thompson's dose of the tinct. for large men ½ to 3 gr. 1 gr. is a full dose. He remarks that it never cures a chronic ulcer, it should be combined with opium in the beginning, as a gr. of ½ gr. may in 3 hours, except for a debilitated habit it is much more liable to produce inconvenient effects before it cures them. Prof. S. however has found it useful in the tinct of cantharides combined with tinct of serpentaria

Tinct. Cantharides is made of various strength (see the Pharmacopoeia). Prof. uses the 1 to 5 of the Dispensatory. Tinct. cantharides. Prof. S. finds 3 gtts to 1 dr of the Dispensatory tinct. cantharides. Prof. S. [illegible] 5 to ½ a dram every 2 hours

ET

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

blisters do not increase strength of action they only excite, hence they are proper in fevers where there is preternatural torpor & insusceptibility. In cases of ~~torpor~~ consequently they are always injurious and if there is a phlegmonous or synovial accompanying inflammation blisters must not be applied till after bleeding &c.

In low-nervous cases stimulants should be given in connexion with the applic. of blisters

In excessive irritability & morbid sensibility or nervous irritation must be conjoined

Where there is a great general prostration and a tendency to local mortification blisters are inadmissible - If there is in this exhaustion blisters well timed to prevent mortification - If the other have taken mortification is likely to result or run high in the cellular tissue they will be injurious - Such affl. should have been previously treated with bleeding &c.

Forms of epispastics

Blisters are commonly used. Dr Duncan prefers ointment in pregnancy with tr. of ~~a~~ strong decoct. in oil of [illegible], a

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powerful epsots. - applied by dossil
ture. Cerate is preferable to plaister
which are generally too hard & sometimes
are adhesive & it may thus be necessa-
ry that the plaister shd stick and
they would pull off all the skin
Adhesive plaisters are made with ol. oil
instead of lard. Blister plaisters
should be so soft as to be softened by the
heat of the body. It may be confined
by strips of adhesive plaister, or by adhe-
sive plaister around the edges. Cerat
n. b and liniment are too soft be
cause they spread. R 1 part
fine powdered Camph. & 2 cerate
Basilicum (unguentum basilicum or
resinosum) is a good cerate. This how-
ever is too strong for the acute diseases
of children. Prof S. always keeps
plaisters two strengths one for Children
Do not add the camph. while the cerate
is on the hottest. Spreading the plais
ter with a hot iron is also a bad prac-
tice. Softening the skin with the warm
water and, in cases of the suscapitible

D T

The poor, on application of a poultice also will increase the susceptib. But in acute dis. we need not wait for the Chafe: 1st ol. pin. Caps. or ammo. The ordinary time of Sacking is about 10 or 12 hours. The time may be shortened by a thick plaister. For Poors this is the head requires double the time. But though one great vesich is not raised at first, but only after another 10 or 12 hours, still vesication is in fact produced in equal time. But Prof. T. never at this time used plasters for the head but the tinct. or a liniment of tinct. camph. aa m. 3 ol. oliv. 3 says nothing about the after suction.

Children are more susceptible owing not to their delicacy of skin merely, but to their greater general susceptibility

When a blister is fairly raised, the plaister shd be removed. Dress with simple cerate

Off. preps. are 1st a weak tinct - of no use - a man might take a table spoonful. 2nd a strong tinct. - tinct

not strong enough 3 an ounce of it
infusion 1/2 pt viz. a useless repetition
4th Contents of it a bat. useless - 5th Scrach
6 plaister not worth retaining

The unpleasant and dicomfortable effects of the Earth. are 1st strangury even bloody urine with sometimes uneasiness in the bowels This is more liable to occur when the plaister is too large upon the inside of the thighs or upon the spine A foolish attempt has been made to separate the nervous principle But all the unpleasant effects may be removed by a fluid drachm of opium by enema or by opium by the mouth Contrary to Duncan &c Murray & Thompson Poupart F. & T. have had abundant experience of the virtue of camphor in obviating the ill effects of earth. Indeed the operation of opium & camphor are nearly the same viz. Febrifuge narcotic, diuretic &c. Will camphor less speedy & less certain. Probably conium & hyoscyamus would obviate this strangury &c! probably also any narcotic

1611

milk demulcents, Mucilages, which are recommended so much, are unnecessary & inefficient in bad cases. The stomach may be stripped by opium before a warm ~~bath~~ or emetic can be procured

We are not to suppose that the ill effects of Corrosives are owing to adulteration sometimes

Vomiting eff. of intoxication

pale breath nausea vom. tormina

Cold stool bloody urine priapism or lagnesia purpura Cadaverous breath, Convuls. tetanus stupor Seem to destroy life by infl. of al. Can. & bladder not a phlegmonous infl.

In case of poisoning the minute green specks upon the intestines will help decide - if it has been given in an h[illegible]. If given in tincture we can judge only by the symptoms &c. Prof. T. thinks also that chem. test will not determine without fallacy. even chem. min. poisons even arsenic. of course not animal

The remedies. Can only be com-

ly

needed to counteract effect of Carb. ac.
mild deobstruent emetics such as olive oil
(or if there are no such emetics) — after
the administration of mucilages also free
use of abdominal bath as. & sol. olivæ.

Still we should not overcome the stomach
too much with diet lest Blood
would only make the patient die
sooner. But the great object we
should be upon given with sufficient
freedom to alleviate pain and procure
sleep. Prof. S. has had several cases
and has had no difficulty in keeping
the symptoms under with opium
& its articles, one consisting of hyoscyamus

Diseases 1st neuralgic toothache
a blister may be a useful auxiliary. 2nd
rheumatic toothache a blister cures

Dimness of sight except internally given
Amaurosis — R. Spanish flies, epispastic
Cataract — R. albicans (white gum resin)
R. gastrodynia — blisters externally, assist-
Common dyspepsia with a torpid liver such
blisters & internally, often useful

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Calcic ferus, blisters are often useful
but rubefacients are better. At first stage,
in the secondary stage a large blister is
often pulm and bth disease — as of
G. rachial. Prof. Brown only
melaena. Cutler differs because it re-
cures in broken down constn.) in bronchial, use
Cutler blisters. Ath for ex-
Pulmonis in cracker — blisters — co-
nium & quinine over the part. not clin
alone, used internally. Low think
carb. specific in struma — it seems
to do better conjoin iron or quinine
with it. Chronic coryza Prof.
B. has cured several cases by carb.
Chronic otorrhea, connected with dyspepsia
& loss of par vagum or sympathetic nerve
may be often cured by calc. carb
etc — also by pulsatilla which is also
good, otorrhea, & even vesicatory
behind ear

Typhus, of all sorts whenever there is intes-
tine organic affection of brain — blisters
in 4th & secondary stages, but smaller
When typhus comes on with nephritis

delirium, procedure &c. Used as tonic on the fast. It is indigenous to [illegible] gives to 1/2 an ounce of the in 24 hours, by Prof. S.

A dry tincture, thus and tongue are taken brown as a dry tongue &c. Strongly indicated acc. to A. W. Prof. The last of the system being sufficiently affected is to irritation about the urinary organs, (Prof S. gives 10 20 or 30 drops every hour or every two hours. He has known but one case of failure when to cure by carbt. was the specific effects have never proved so Prof. .. has had the same experience with the exception

Carbt. answers well in chronic [illegible] typhus but not so well in irritability or irritation. Best suited to moderately malignant nervous typhus. Is useful in translating the diseased excitement from the nerves to the bloodvessels (Prof c.) But Prof. thinks we never have any evidence of excitement in the nerves. This distinction amounts to no more than calling it a stimulant, but not a nervine

4

Solution tren. [illegible] which is a species of tepidity [illegible] unless there is a very [illegible] debility — there [illegible] but in a slight degree as [illegible] purity of fever in the case [illegible] the Carb. [illegible] irritates the cond. of the syst. in which it [illegible], depresses.

Eruptions do not appear until [illegible] desiccation of their coverings at their height

Vesicles where but a small portion of the surface is affected — there is good reason to suppose that blisters have dispersed the above Carbuncle in its earliest [illegible] stage

Other erythem. inflammatio supervenes.

Visceral phlegmasia, if endemic and phlegmonous blisters over the [illegible] rising — also if erythematic, strumous &c.

Paralysis blisters are highly useful [illegible] internally — Camph. is the most important — nit. æth. sulph. æth. &c. also valuable. A sort of test of the efficacy of the Carb. is a thickening of the discharge from the vagina which is produced by Carb. It is not necessary to keep up more than a slight strangury — if more appears it is not to be suffered.

&c

Blennorhoea Senilis Cantharides often cures yet at, as well as other times, occasionally fails. This disease is more difficult to cure when it has often existed. Cantharides may be given in a large dose to break up the disease at once at the risk of strangury — or in small doses. The strangury may be relieved by opium. Blennorhoea simplex (gleet) used as in Leucorrhoea or urinis. You may anticipate the ~~disease~~ strangury by observing the increase of urine

Spermatorrhoea

Chlorosis

Prolapsus uteri (Edoptosis) Cantharides seems to possess a peculiar action on the mucous membrane — hence Dr J. Wood of Vermont finds it best to put article to break the relaxation upon which the disease depends

Hydropsy useful as a diuretic & not a stimulant. It has been supposed that the imbalance is preferable — this is, on account of the weakness of the Epithelium ~~matter~~ tissue. Prof F carried off all the fluid in one night the pat. was cold & almost pulseless in the morning but was restored by bandaging &c

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fract. ii, tinct. cinchon &c. The canth. was given in conjunction with Cer pt. 1gr. of each in pill or bolus. N.B. Bynum's ft. canth. & belladon. mixt. Accepted. Canth. Cal. digit. also a compound of canth. squills & digit. have proved highly serviceable in dropsy. Note the standing Parrish assertion that canth. is incompatible with squills & digitalis. These compounds are valuable because they combine diuretic & sedative properties. Prof. T. has often succeeded in the use of dig. by using ale. as a stimulant, when he had failed in using the article.

Paruria inops var. paralytica

Paruria retentionis. produced by loss of tone of bladder as by typhus, or by opium.

There are two prominent sorts of strangury one produced by acrids as canth. the other by narcot. as op. which are cured by the opposite articles. Where there is difficulty about using the catheter - a full dose of either, (a teaspoonful) will answer instead. Still we often cannot decide as to the cause of the strangury.

Paruria mellita. Opium is the most val-

valuable surgical agent. Canth. is a valuable adjunct. Prof. S has often put it pat upon a grain per hour to begin with - the patient will not generally be sleepy &c. Sometimes it is desirable to keep up a moderate degree of strangury. Cloth it pat. with flannel Sponge him with tinct. capsi., or nitro muriatic acid - diet of farinaceous food - little liquid Give aloes as a cath.

Tinct. canth. tinct opii ℥ss ter in die. or tinct. canth with muriat. iron ℥ tinct opii - add also ol hyoscyami - or common soot

Paronychia is continuous - also Par. inc. var. aquosa (called onychosis), of children Epidermis profusely external applic. of tinct. with friction ℥ internally

Psoriasis all the varieties may be cured by applying the tinct. with gentle & moderate rubefaction - or plasters - generally both answer. Said to be useful in Herpes (impetigo herpetica) But this is improbable Cathartics are the only effectual articles

Patients reduced very low by hemorrhage have been restored by canth. wine or brandy when the latter fail - iron also also

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E. vittata (or Lytta vit.) is found upon Solanum tuberosum - various species of Leguminosae, Cactaceae, Racemosae &c. (potato fly) - certain Canthoridini. Not questionable strong for external and internal use than E. vesic. E. cinerea is supposed to be still more active but is not very abundant with us. Cantharis is thought inferior for a solidago, &c. Lytta gigas is twice as large & twice as strong - and produces vesication more - too - E. Am. - used in Philadelphia. Mylabris cichorii is the Cantharis - used by the Hindoos - now used in China. Or T. Wardwood & Tansy known - Apis mellif. to be a diuretic about half as strong as Canth. They used it in fusion - They gave it as a diuretic to horses also. Tri. st. - to be better.

MS
B
27
1.1st

Ibid. Sect. 332-3

I have also seen that so many ulcerations black spots &c appear on the coats of the stomach where there has been no horror appear to destroy the evidence for poison derived from such facts

Professors of anatomy in the United States quoted for the opinion that anatomy is not too much but too exclusively studied

Rheumatalgic inflammation of the heart, for instance, does not produce pericardial effusion, yet the latter may take place in the last stages

Post mortem examinations should be made whenever practicable for several reasons

It is a great mistake to prescribe to the mere name of a disease Equally wrong is it to prescribe to symptoms without considering the laws of the disease in any case "the laws of the epidemic, also. For instance the pain in the head of cancer is not to be relieved like that of typ

Course of 1832-3 Materia Medica
Prof. Tully's 1st Lecture

Introductory remarks upon the mutual interest between professors and their pupils

Subject of the lecture was the negative part of Medical knowledge or the things to be avoided in practice

Prof T. is inclined to think our plan of medical education is radically inferior to what it was, 50 or 60 years ago when a young man read 5 or 6 years under a practitioner & read & saw practice together. Our plan is not so ill calculated for surgeons

It is a great mistake to suppose that all pathology is to be acquired in the dissection room Baudelocque quoted in favor of this opinion Denman also Another name not given

Post mortem examinations do not show the difference between carbonic and atmospheric [illegible]

Introd. Lect. 1832-3

Habitual use of improper expressions such as – "patients falling into my hands" "throwing in medicines" "what the patient will bear" A physician lost the practice of a lady & through her that of many others

It is an undoubted fact that the great majority of cases of sickness – not excepting fevers – will recover without medication. The fact that alone so many do recover under all modes of treatment, proves this

Richmond, Sept. 1824

Ives. Tully. Vol. 12.
National Library of Medicine
Bethesda, MD

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Treatment: The volume was collated and disbound. The inks were tested for solubility. The head, tail and pages were dry cleaned and washed and then buffered (deacidified) with magnesium bicarbonate solution. Tears were mended and folds guarded where necessary with Japanese paper and rice starch paste. The volume was sewn on linen tapes with linen thread. Windsor handmade paper ends with a linen hinge were attached. The volume was case bound in full cloth. Title information and lines were stamped in gold foil onto the spine.

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